

# **2024 EXPANDED WILDLIFE MONITORING PROGRAM**

Swan Hills Treatment Centre

Veolia Canada

Wildland Management Consultants Ltd.

Leduc County, Alberta

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## Executive Summary

### Scope

As part of its integrated environmental monitoring program, the Swan Hills Treatment Centre (SHTC) has been conducting demographic studies and analyzing levels of various chemicals in the tissues of red-backed voles (*Myodes gapperi*) annually since 1986. Over this period, the wildlife monitoring program was initially conducted on an annual basis on 3 population and 10 tissue collection plots although in 2000, the scope of monitoring program was changed so that plots monitored prior to 2000 (10 population and 24 tissue collection plots) would be included as part of an expanded monitoring program once every 5 years. However, based on recommendations made in the 2023 annual monitoring report (WMC 2024), sampling effort of the expanded monitoring program was reduced to focus on the 3 annually monitored population plots and the 10 annually monitored tissue collection plots. If warranted in the future, plots previously part of the expanded monitoring program (10 population and 24 tissue collection plots) would be sampled in the event of an upset at the SHTC based on the key trigger responses developed for red-backed voles. Therefore, the 2024 expanded wildlife monitoring program was focused on demographic studies of voles on 3 live-trapping plots in June and September (Table 1) while concentrations of Aroclor PCBs, PCB congeners and TEQs, dioxin/furan congeners and TEQs, total TEQs, metals and PAHs were determined for animals collected from 10 plots in May (Table 1).

### Population Monitoring

Between 1991 and 2015, average red-backed vole densities in the SHTC area have varied between 1.9 (2000) and 18.8 (2013) voles/ha in June, and between 4.9 (2011) and 37.5 (2013) voles/ha in September. However, vole populations in the SHTC area reached their highest average densities ever recorded for June (19.2 voles/ha) and September (39.8 voles/ha) during the 2016 vole monitoring year. These densities were 2.4 and 2.3 times higher than the respective 25-year average (1991 – 2015) vole densities for June (8.2 voles/ha) and September (17.5 voles/ha). Then in 2017, vole densities declined to some of the lowest levels recorded since monitoring began in the SHTC area (e.g., plots 11 and 70 fell to the lowest recorded September densities since 1991). Vole densities between 2018 and 2021 returned to similar densities recorded prior to the respective population peak and population low reported in 2016 and 2017. In comparison, while vole densities at the 3 monitoring plots in both June and September 2024 were within historical ranges previously recorded in the SHTC study area, they approached population lows similar to those recorded in 1993, 1997, 2000, and 2017.

Historically, population increases, and decreases have almost been synchronous at the 3 annually monitored plots in the SHTC study area, although periodically there have been differences in population dynamics among the plots, particularly in the June populations (Figure 1). The observed variability in June populations as compared to the more synchronous cycles observed in September (Figure 2) is likely influenced by recruitment into the June population when breeding typically occurs. During 2024, both June and September vole densities decreased at all 3 plots with the greatest decline recorded at plot 114 June while only a slight decrease in vole density was recorded at plot 11.

The reason(s) for these inconsistencies in vole densities among plots is unclear but likely reflect subtle differences in habitat structure at the plots (or site conditions) and therefore, their ability to support voles under variable weather conditions (e.g., overwinter survival), levels of predation, and food supply. However, vole population synchronicity in June and September within the SHTC area appears to have returned since 2012 and is similar to the population cycles observed prior to 2009. In contrast, September vole densities between 2019 and 2024 were somewhat more erratic, similar to density fluctuations recorded between 2008 and 2011. With June and September densities approaching historic population lows in 2024, it seems likely that vole populations at the 3 annually monitored plots will begin the increase phase of their cycle in 2025.

Compared to previous expanded monitoring years (which were comprised of 10 plots), the average June vole density for the 2024 expanded monitoring program (3 plots) was the lowest recorded since the 5-year expanded monitoring program was initiated in 1999 as well as in monitoring years between 1988 and 1998 (Table 2). The highest June densities occurred at plots 4 (at 23.6 voles/ha), 109 (at 20.0 voles/ha, and 27 (at 19.1 voles/ha) in 2019, and plot 70 at 19.117.3 voles/ha in 1999. In comparison, the density of voles at plot 11 in 2024 (2.1 voles/ha) was the second lowest recorded compared to previous expanded monitoring years, while the June 2024 vole density (of 0.7 voles/ha) at plot 114 was the lowest recorded, the same as that recorded in 2009 (0.7 voles/ha) (Table 2). The vole density at plot 70 (3.5 voles/ha) during the June 2024 expanded monitoring year was the lowest recorded since the initiation of the expanded monitoring in 1999. In contrast to June, the average September vole density in 2024 for the expanded monitoring program (3 plots) was lower than the overall average of 14.8 voles/ha recorded in 2019 when expanded monitoring program was comprised of 10 plots (Table 3). The highest vole densities were recorded plot 11 (10.4 voles/ha) during the 2024 expanded monitoring program, followed by plot 70 (9.0 voles/ha) and 114 (6.3 voles/ha). During previous expanded monitoring years, the highest September densities occurred at plots 70 (38.9 voles/ha) in 2009, 114 (21.8 voles/ha) in 1999, and 11 (12.7 voles/ha) in 1999. Overall, average September vole densities during 4 (1999, 2004,

2014 and 2019) of the previous 5 expanded monitoring years were higher (range = 6 to 99% lower) than those recorded at the 3 expanded monitoring plots except for the 2009 when densities were 22% lower (Table 3). Aside from some variability in vole weight classes and breeding voles in the heavy weight class (i.e., breeding proportions) among the 3 annually and 10 expanded monitoring plots, most other demographic parameters were consistent with those recorded during previous years of monitoring, suggesting that plot proximity in relation to the SHTC did not affect vole demography in 2024.

## **Tissue Chemistry of Red-backed Voles**

### ***Aroclor PCBs***

Concentrations of Aroclor PCBs were estimated from HRMS congener-specific results since the low-resolution GC-ECD method previously used for this analysis is no longer available. The average 2024 Aroclor PCB concentration for annually monitored plots (0.02 mg/kg, n = 6 plots) was 75% less than that recorded in 2019 (0.08 mg/kg, n = 10 plots) (Table 4). In fact, the 2024 concentration was the lowest recorded since 1989 which was 0.04 mg/kg. Similarly, the 2024 Aroclor PCB concentration on the expanded monitoring plots (0.02 mg/kg over 4 plots) was 86% less than what was recorded in 2019 when the reported concentration was 0.07 mg/kg over 10 plots. The average 2024 concentration of Aroclor PCBs of 0.02 mg/kg was slightly higher than that recorded in 1989 (0.01 mg/kg), the second lowest since monitoring began. On an individual plot basis, the highest Aroclor PCB levels in 2024 were recorded at plots 4 (0.06 mg/kg) and 109 (0.03 mg/kg), both of which are located within 300 m of the SHTC. The remaining plots had concentrations  $\leq 0.02$  mg/kg in 2024 (Table 4).

Figure 3 compares the average yearly Aroclor PCB concentrations recorded for plots that were annually monitored to those plots that were monitored during the expanded monitoring program. Up until 1999, between 7 and 24 plots were monitored for Aroclor PCBs. During this period, the trend in concentrations recorded for the expanded monitoring plots was similar to that observed for annually monitored plots although the average concentrations were generally lower. Following rationalization of the monitoring program in 2000 when 24 of the plots were monitored every 5 years, Aroclor PCB concentrations for the annually monitored plots in 1999 and 2004 were higher (42% and 41%, respectively) than the average concentrations recorded for the expanded monitoring plots (Figure 3). In 2024, the Aroclor PCB concentrations at annually monitored and expanded monitoring plots were the same (0.02 mg/kg). Therefore, it appears that the 10 plots that were annually monitored represent reasonable indicators of the overall results for Aroclor PCBs in the vicinity of the SHTC. Furthermore, the low concentrations of Aroclor PCBs recorded in at the annually monitored and expanded monitoring plots in 2024 are consistent with a declining trend that has been occurring in the vicinity of the SHTC since 2014 (Figure 3).

### ***PCB Congeners and TEQs***

The average concentration of PCB congeners in vole tissues decreased (-8%) between May 2023 and May 2024. While congener PCBs decreased at 5 plots, year-over-year increases were recorded at the remaining 5 plots, the highest increases of which occurred at plots 110 (173%) and 109 (73%) (Table 5). Despite these increases, the average 2024 concentration across the 10 plots is 73% lower than the 24-year average (2000 – 2023) for the SHTC study area; the second lowest concentration recorded since 2000. As in previous monitoring years, the lowest PCB concentrations were recorded at plots located farthest from the SHTC (i.e., plots 402, 70 and 71) while the highest concentrations typically occurred at plots closer to the plant site (plots 11, 109, 4, 110, and 114) (Table 5).

Between May 2023 and May 2024, PCB TEQs decreased at 6 and increased at 4 of the 10 plots, representing an average decrease in PCB TEQ concentration of 13% (Table 6). The highest PCB TEQ in 2024 was recorded at plot 4, which has been the case for all but one year (plot 109 in 2012), although it represents the second lowest concentration recorded at this plot since 2000. In comparison, PCB TEQ values at plots 402, 70, and 71 were  $\leq 1$  pg/g in 2024, continuing to represent the lowest levels recorded among the 10 plots on a historical basis. Historically, the highest PCB TEQ concentrations have been found in vole tissues collected near ( $\leq 0.7$  km) and lowest at plots further away ( $> 0.7$  km) the SHTC. The exceptions to this occurred in 2022 at plot 110 (7.62 pg/g) which is located only 0.3 km from the SHTC, plot 117 (28.1 pg/g) which is located 2.7 km from the SHTC, and plot 70 (11.80 pg/g) in 2023, unlike most previous monitoring years. The higher concentration of PCB TEQ at plot 70 was likely affected by the fires that were burning close to the Town of Swan Hills in 2023.

### ***Dioxin/Furan Congeners and TEQs***

Dioxin/furan concentrations in red-backed voles decreased at 6 plots and increased at 4 plots between May 2023 and May 2024. The highest concentrations occurred at plots 4 (56.36 pg/g) and 109 (31.54 pg/g) while concentrations at the remaining plots were  $\leq 13.12$  pg/g (plot 4) (Table 7). For the most part, the highest levels of dioxins/furans occurred at plots 11 through 114 (range = 10.58 – 56.36 pg/g) which are located  $\leq 0.7$  km of the SHTC while the lowest values were generally recorded at plots 123 through to plot 71 (range = 2.13 - 11.44 pg/g), which are located the furthest away ( $> 0.7$  km). Dioxin/furan concentrations at the 10 plots in 2024 were within previously observed ranges. Overall, dioxin/furan congener concentrations in the SHTC study area were highest between 2000 and 2006 but for the most part, have been declining since 2006 although slight increases were recorded in 2022. In 2024, dioxin/furan congeners were 30.2% lower compared to 2023.

The average dioxin/furan TEQ concentration in 2024 decreased 28.9% between May 2023 and May 2024, representing the second lowest concentration (2.7 pg/g) recorded in the SHTC

study area since 2000 (range = 2.1 to 1,371.4 pg/g) (Table 8). Since 2006, dioxin/furan TEQs have consistently declined to the low levels that have been recorded between 2017 and 2024. As with PCB TEQs, dioxin/furan TEQ concentrations in voles generally declined with increasing distance from the SHTC in May 2024 although larger increases were documented at plots 114 and 117 in 2022 and at plot 70 (likely related to the wildfires in the vicinity of the Town of Swan Hills) in 2023 compared to recent monitoring years.

### ***Total TEQs in Relation to Plot Location***

Between May 2023 and May 2024, total TEQ levels in red-backed voles decreased at 6 plots and increased at 4 of the 10 monitoring plots, resulting in an average 24% decrease (-5.06 pg/g). Average total TEQ at plots >2 km from the SHTC remained well-below total TEQ concentrations at plots ≤2 km from the SHTC in 2024 (Figure 1-4). The overall trend in total TEQ concentrations for both distance categories in the SHTC study area has continued to decline since 2000 but increased in 2022 because of an anomaly in the data set. In 2023, total TEQ concentrations recorded at plots 114 and 117 were back within historical ranges while total TEQ concentration at plot 70 was the highest recorded since 2000. This was attributed to the occurrence of wildfires that occurred near the Town of Swan Hills and elsewhere in the vicinity of the SHTC study area. Total TEQ continued to decline in 2024 (Figure 1-4).

### ***Inorganic Elements***

Of the 28 heavy metal concentrations measured in vole tissues in 2024, 11 elements were below those recorded during the 1986-1097 baseline period, 10 were similar to baseline concentrations, while 4 exceeded baseline conditions (Table 9). Of the 4 heavy metals that exceeded baseline concentrations in 2024 (copper, iron, manganese, and selenium), all were within ranges recorded during previous expanded monitoring years. Overall, 15 of 27 metals measured in 2024 exhibited weak negative correlations, 7 of which were significant ( $P < 0.05$ ), indicating that as distance from the SHTC increased, concentrations of heavy metals generally decreased. An additional 10 metals exhibited either significantly ( $P < 0.05$ ) weak (5 plots) or moderately (5 plots) positive concentrations suggesting that as distance from the SHTC increased, concentrations of these metals also increased. Eight of the 27 metals that were detected in vole tissues in May 2024 are also generally considered to be elements of concern including arsenic, cadmium, chromium, copper, lead, mercury, nickel and zinc (Table 9). Of these 8 metals of concern, only copper and selenium exceeded baseline concentrations. Lead and mercury were the only heavy metals that exceeded baseline concentrations in only 3 of the 13 previous monitoring years when analyses of metals were conducted. In contrast, baseline concentrations of zinc, arsenic and copper exceeded baseline concentrations in 7, 7, and 10 years during the same 13 metals monitoring years. Although periodic concentration

exceedances for various metals have been detected over the years, any trends in relation to distance from the SHTC were weakly negative and for the most part, non-significant.

### **PAHs**

PAHs in voles collected from the SHTC study area were periodically analyzed on various plots between 2000 and 2003 and then again during the 2019 expanded monitoring programs. During these monitoring years, PAHs in vole tissues were for the most part, below their detection limits although 11 of the analytes were at or near their detection limits. In contrast, 35 (45%) of the 78 analytes present in vole tissues were near or exceeded the detection limits at between 5 and 10 of the plots during the 2024 expanded monitoring program. In comparison to the 2019 monitoring year when the same 78 analytes were analyzed, percentage changes in concentrations increased from a low of 285% at plot 402 to a high of 1,079% at plot 117 representing an overall increase of 613% from the 2019 monitoring year (Table 10). As in previous monitoring years, there was no clear trend in the concentrations of PAHs in relation to distance from the SHTC. While anthropogenic sources such as industrial stack emissions can contribute significantly to elevated PAH concentrations in various receptors (including red-backed voles), these results suggest that the higher concentrations recorded during 2024 were more likely related to the recent fire history in the SHTC study area. Forest fires are generally the single most important natural source of PAHs in Canada.

In addition, of the various PAH analytes detected in red-backed vole tissues in 2024 and previous monitoring years, 17 are considered to be priority PAHs because of their toxicity, persistence, and potential to bioaccumulate. Overall, naphthalene and phenanthrene had the highest concentrations over the 6 monitoring years, accounting for 8.5% and 8.2% of the total PAH concentrations present in vole tissues, respectively, while the lowest average concentration was recorded for perylene (1.9%). However, differences among the 17 priority PAHs were small and did not appear to exceed current guidelines nor was there any clear trends in PAH concentrations in relation to distance from the SHTC.

### **Chemical Concentrations in Relation to Red-backed Vole Demography**

Since PCBs and dioxins and furans, can affect reproductive success in mammals, various vole demographic parameters, including density, breeding condition, sex ratios, and weight class structure were examined in relation to chemical concentrations in vole tissues. While results indicate that higher concentrations of PCBs, dioxins/furans, and total TEQ in 2024 were associated with plots 11 and 114 which are closer to the plant site than plot 70, there was no clear indication that the Treatment Centre was affecting vole demography (Table 11). With respect to heavy metals and PAHs, there was no apparent relationship between concentrations and distance from the plant site. For example, the highest vole densities were

recorded at plot 70 in June but were highest at plot 11 in September. There were also no apparent trends in relation to distance from the plant with respect to other population data such as sex ratios, weights, and breeding voles. Long-term monitoring has not exhibited any obvious population-level changes that would be consistent with the higher body burden levels in voles that were observed between 2000 and 2024. As indicated earlier, this appears to more likely reflect different habitat conditions among the 3 plots and the phase of the population cycle the voles are in.

## **Conclusions and Recommendations**

The results of the 2024 expanded wildlife monitoring program indicate that overall Aroclor PCB, PCB congener, and PCB TEQ concentrations decreased substantially in red-backed vole tissues from 2019, representing among the lowest levels recorded in the SHTC study area since monitoring began in 1988. Similarly, average concentrations of dioxin/furan congeners and TEQs also decreased between May 2019 and May 2024 and are among the lowest recorded since monitoring for this class of chemicals began in 2000.

Total TEQ concentrations at most plots in 2024 are still among the lowest levels recorded in the SHTC study area since 2000. Only 4 metals exceeded baseline concentrations while the remaining metals were either similar (7 metals) or below (16 metals) baseline conditions in 2024. Of the 28 metals monitored between 1986 and 2024, 8 are typically considered as elements of concern including arsenic, cadmium, chromium, copper, lead, mercury, nickel and zinc, although only copper and selenium exceeded baseline conditions. PAHs that were periodically analyzed on various plots between 2000 and 2003 and then again during the 2019 expanded monitoring years were for the most part, below their detection limits. While 35 (45%) of the 78 analytes present in vole tissues in 2024 were near or exceeded the detection limits at between 5 and 10 of the plots, no clear trends with respect to distance from the SHTC were evident. However, average PAH concentrations in 2024 were 613% higher than those recorded in 2019 when the same 78 analytes were analyzed. This large increase was likely related to the wildfires that occurred during 2023 in the vicinity of the SHTC study area. While no clear trends in PAH concentrations with respect to distance from the SHTC were evident, the elevated levels recorded in 2024 compared to previous years suggests that PAHs in voles should be monitored again in 2025.

As has been the case in past monitoring years, operation of the SHTC in 2024 did not appear to influence red-backed vole demography despite elevated levels of PCB and dioxin/furan TEQs in vole tissues collected from plots near the plant site. Average vole densities in June and September 2024 decreased considerably compared to 2023, approaching populations lows previously recorded 1993, 1997, 2000, and 2017. This suggests that vole populations in the SHTC study area will likely enter the increase phase of their population cycle in 2025.

Based on vole tissue chemistry data and the vole live-trapping sessions, there was no indication that SHTC operations affected red-backed vole demography despite elevated chemical levels in vole tissues close to the plant in 2024. Even though concentrations of PCB TEQs and dioxin/furan TEQs were, for the most part, at historically low concentrations, the continued presence of elevated contaminants in voles collected near the SHTC indicates that there is still a need to continue monitoring vole demography and tissue chemistry in 2025.

Based on the amount of long-term monitoring data that has been collected over the past 38 years as well as an expected reduction in the PCB waste stream going forward, the expanded wildlife monitoring program in 2024 was reduced from 13 vole population monitoring plots (which also included the 3 annually monitored plots) and 24 vole tissue collection plots to the 3 annually monitored plots and 10 tissue collection plots. Going forward, the annual monitoring program will now be comprised of ongoing monitoring of the same 3 previously annually monitored plots (June and September) and 6 vole tissue monitoring plots (Table 12). While there will be a reduction in vole tissue collection plots, this would focus annual monitoring of contaminant levels present in voles at 4 plots (plots 11, 4, 109, and 114) near the SHTC as well as 2 reference/control plots (plots 70 and 71) located further away. Laboratory analyses of contaminants in red-backed voles will focus on PCB, dioxin/furan, and total TEQs. However, if required, analysis of heavy metals and/or PAHs could be added in the event of any facility incidents/upsets or increased contaminant levels that may be detected in voles and various other media associated with the integrated environmental monitoring program for the SHTC.



**Table 1.** Summary of previous and current annual/expanded red-backed vole monitoring programs.

| Plot No.                                                           | Distance from SHTC the (km) | Direction from the SHTC | Tissue Collection/Snap-trapping <sup>1</sup> |                           |                                                                          | Population Monitoring/ Live-trapping <sup>1</sup> |
|--------------------------------------------------------------------|-----------------------------|-------------------------|----------------------------------------------|---------------------------|--------------------------------------------------------------------------|---------------------------------------------------|
|                                                                    |                             |                         | Metals, PAHs <sup>1</sup>                    | Aroclor PCBs <sup>2</sup> | PCB Congeners and TEQs, Dioxins/Furans and TEQs, Total TEQs <sup>3</sup> |                                                   |
| Previous Annual and Expanded Monitoring Programs (Prior to 2024):  |                             |                         |                                              |                           |                                                                          |                                                   |
| 11                                                                 | 0.1                         | N                       | ✓                                            | ✓                         | ☑                                                                        | ☑                                                 |
| 109                                                                | 0.2                         | W                       | ✓                                            | ✓                         | ☑                                                                        | ✓                                                 |
| 103                                                                | 0.2                         | SE                      | ✓                                            | ✓                         | -                                                                        | ✓                                                 |
| 4                                                                  | 0.3                         | E                       | ✓                                            | ✓                         | ☑                                                                        | ✓                                                 |
| 110                                                                | 0.3                         | W                       | ✓                                            | ✓                         | ☑                                                                        | -                                                 |
| 104                                                                | 0.4                         | NW                      | ✓                                            | ✓                         | -                                                                        | -                                                 |
| 102                                                                | 0.4                         | E                       | ✓                                            | ✓                         | -                                                                        | -                                                 |
| 1                                                                  | 0.4                         | NE                      | ✓                                            | ✓                         | -                                                                        | ✓                                                 |
| 27                                                                 | 0.5                         | S                       | ✓                                            | ✓                         | -                                                                        | ✓                                                 |
| 8                                                                  | 0.6                         | E                       | ✓                                            | ✓                         | -                                                                        | ✓                                                 |
| 15                                                                 | 0.6                         | NW                      | ✓                                            | ✓                         | -                                                                        | -                                                 |
| 114                                                                | 0.7                         | E                       | ✓                                            | ✓                         | ☑                                                                        | ☑                                                 |
| 121                                                                | 1.2                         | N                       | ✓                                            | ✓                         | -                                                                        | -                                                 |
| 9                                                                  | 1.4                         | ENE                     | ✓                                            | ✓                         | -                                                                        | ✓                                                 |
| 28                                                                 | 1.4                         | WNW                     | ✓                                            | ✓                         | -                                                                        | -                                                 |
| 123                                                                | 1.6                         | NE                      | ✓                                            | ✓                         | ☑                                                                        | -                                                 |
| 16                                                                 | 2.4                         | E                       | ✓                                            | ✓                         | -                                                                        | -                                                 |
| 117                                                                | 2.4                         | SE                      | ✓                                            | ✓                         | ☑                                                                        | -                                                 |
| 26                                                                 | 2.6                         | WNW                     | ✓                                            | ✓                         | -                                                                        | ✓                                                 |
| 30                                                                 | 3.6                         | NW                      | ✓                                            | ✓                         | -                                                                        | ✓                                                 |
| 29                                                                 | 3.9                         | E                       | ✓                                            | ✓                         | -                                                                        | -                                                 |
| 402                                                                | 7.5                         | E                       | ✓                                            | ✓                         | ☑                                                                        | -                                                 |
| 70                                                                 | 11.5                        | SW                      | ✓                                            | ✓                         | ☑                                                                        | ☑                                                 |
| 71                                                                 | 21.0                        | NNW                     | ✓                                            | ✓                         | ☑                                                                        | ✓                                                 |
| Current Annual and Expanded Monitoring Programs (2024 and Onward): |                             |                         |                                              |                           |                                                                          |                                                   |
| 11                                                                 | 0.1                         | N                       | ✓                                            | ✓                         | ☑                                                                        | ☑                                                 |
| 109                                                                | 0.2                         | W                       | ✓                                            | ✓                         | ☑                                                                        | -                                                 |
| 4                                                                  | 0.3                         | E                       | ✓                                            | ✓                         | ☑                                                                        | -                                                 |
| 110                                                                | 0.3                         | W                       | ✓                                            | ✓                         | ✓                                                                        | -                                                 |
| 114                                                                | 0.7                         | E                       | ✓                                            | ✓                         | ☑                                                                        | ☑                                                 |
| 123                                                                | 1.6                         | NE                      | ✓                                            | ✓                         | ✓                                                                        | -                                                 |
| 117                                                                | 2.4                         | SE                      | ✓                                            | ✓                         | ✓                                                                        | -                                                 |
| 402                                                                | 7.5                         | E                       | ✓                                            | ✓                         | ✓                                                                        | -                                                 |
| 70                                                                 | 11.5                        | SW                      | ✓                                            | ✓                         | ☑                                                                        | ☑                                                 |
| 71                                                                 | 21.0                        | NNW                     | ✓                                            | ✓                         | ☑                                                                        | -                                                 |

<sup>1</sup> Bold boxed check marks ☑ indicate plots that are monitored annually for vole tissue collection and population studies. Plain check marks ✓ indicate plots that are part of the expanded monitoring program (i.e., once every 5 years). <sup>2</sup> The low resolution GC-ECD method historically used for Aroclor PCBs was discontinued in Canada in 2019. <sup>3</sup> HRMS congener-specific methodology would be used for all expanded monitoring plots in response to a red-backed vole trigger.

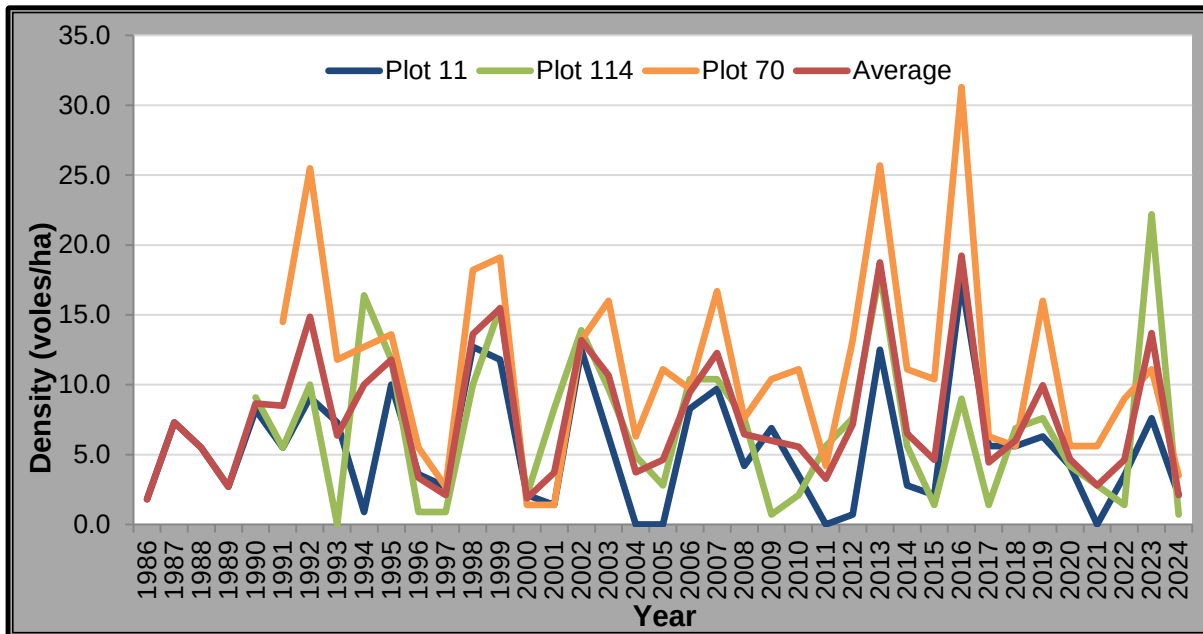


**Figure 1.** Densities of red-backed voles in the SHTC study area, June 1986 - 2024.

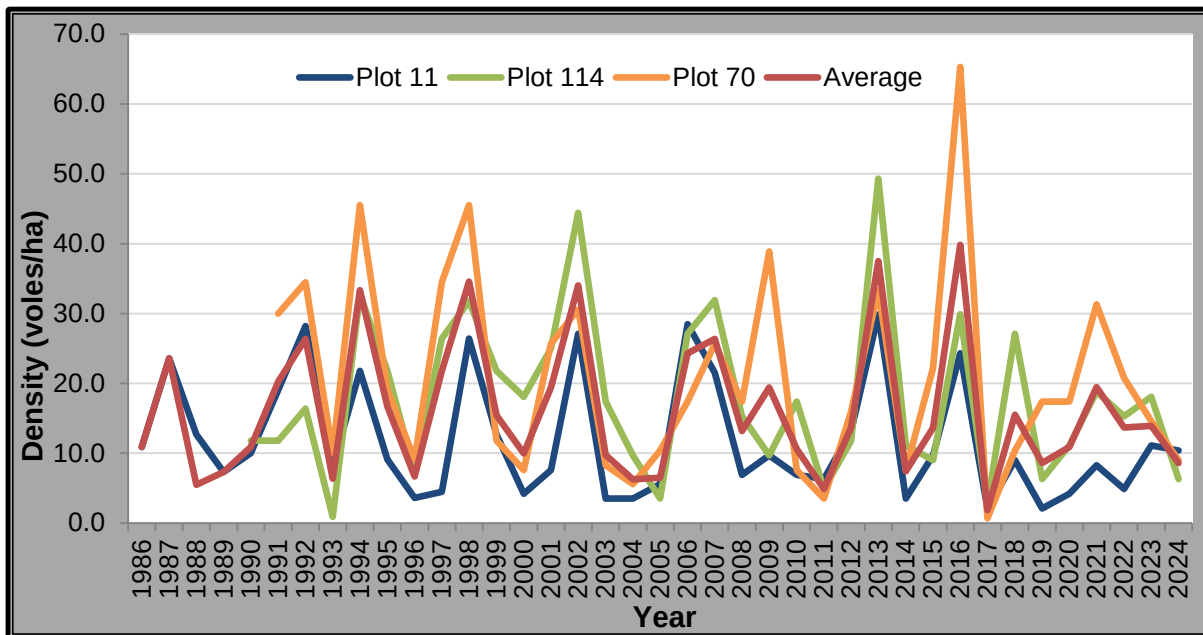


**Figure 2.** Densities of red-backed voles in the SHTC study area, September 1986 - 2024.

**Table 2.** Minimum densities (no./ha) of red-backed voles captured during the expanded monitoring programs conducted in the SHTC study area, June 1986 – 2024.

| Plot                                   | Distance from SHTC (km) | Direction from SHTC | Baseline Phase (1986-87) | Operations Phase  |             |            |             |             |             |                        |
|----------------------------------------|-------------------------|---------------------|--------------------------|-------------------|-------------|------------|-------------|-------------|-------------|------------------------|
|                                        |                         |                     |                          | 1988-1998         | 1999        | 2004       | 2009        | 2014        | 2019        | 2024                   |
| <b>11</b>                              | <b>0.1</b>              | <b>N</b>            | <b>1.8 - 7.3</b>         | <b>0.9 - 12.7</b> | <b>11.8</b> | <b>0.0</b> | <b>6.9</b>  | <b>2.8</b>  | <b>6.3</b>  | <b>2.1</b>             |
| 109                                    | 0.2                     | E                   | -                        | 0.9 - 16.4        | 0.9         | 6.4        | 3.6         | 8.2         | 20.0        | -                      |
| 103                                    | 0.2                     | W                   | -                        | 0.9 - 7.3         | 12.7        | 3.6        | 5.5         | 3.6         | 16.4        | -                      |
| 4                                      | 0.3                     | E                   | 0.0 - 12.7               | 1.0 - 14.5        | 2.7         | 3.6        | 6.4         | 9.1         | 23.6        | -                      |
| 1                                      | 0.4                     | NE                  | -                        | 6.4 - 23.6        | 8.2         | 4.5        | 14.5        | 15.5        | 11.8        | -                      |
| 27                                     | 0.5                     | S                   | 2.7 - 6.4                | 0.9 - 13.6        | 10.0        | 6.4        | 7.3         | 11.8        | 19.1        | -                      |
| 8                                      | 0.6                     | E                   | -                        | 4.5 - 22.7        | 11.8        | 10.0       | 9.1         | 4.5         | 12.7        | -                      |
| <b>114</b>                             | <b>0.7</b>              | <b>E</b>            | <b>-</b>                 | <b>0.0 - 16.4</b> | <b>15.5</b> | <b>4.9</b> | <b>0.7</b>  | <b>5.6</b>  | <b>7.6</b>  | <b>0.7</b>             |
| 9                                      | 1.4                     | ENE                 | -                        | 5.5 - 18.2        | 12.7        | 2.7        | 3.6         | 4.5         | 17.3        | -                      |
| 26                                     | 2.6                     | WNW                 | -                        | 0.0 - 10.9        | 8.2         | 8.2        | 0.9         | 3.6         | 9.1         | -                      |
| 30                                     | 3.6                     | NW                  | 4.5 - 19.1               | 0.0 - 22.7        | 14.6        | 1.8        | 10.9        | 12.7        | 15.5        | -                      |
| <b>70</b>                              | <b>11.5</b>             | <b>SW</b>           | <b>-</b>                 | <b>2.7 - 25.5</b> | <b>19.1</b> | <b>6.3</b> | <b>10.4</b> | <b>11.1</b> | <b>16.0</b> | <b>3.5</b>             |
| 71                                     | 23.0                    | NNW                 | -                        | 0.9 - 20.0        | 3.6         | 17.3       | 17.3        | 11.8        | 10.0        | -                      |
| Annually Monitored Plot Averages (3)   |                         |                     | <b>4.6</b>               | <b>8.5</b>        | <b>15.5</b> | <b>3.7</b> | <b>6.0</b>  | <b>6.5</b>  | <b>10.0</b> | <b>2.1</b>             |
| Expanded Monitoring Plot Averages (10) |                         |                     | <b>7.6</b>               | <b>8.0</b>        | <b>8.5</b>  | <b>6.5</b> | <b>7.9</b>  | <b>8.5</b>  | <b>15.6</b> | <b>2.1<sup>2</sup></b> |

<sup>1</sup> Bold italics indicates plots that are monitored annually. <sup>2</sup> n= 3 plots.

**Table 3.** Minimum densities (no./ha) of red-backed voles captured during the expanding wildlife monitoring program in the SHTC study area, September 1988 – 2024.

| Plot                                          | Distance from SHTC (km) | Direction from SHTC | Baseline Phase (1986-87) | Operations Phase  |             |             |             |             |             |                        |
|-----------------------------------------------|-------------------------|---------------------|--------------------------|-------------------|-------------|-------------|-------------|-------------|-------------|------------------------|
|                                               |                         |                     |                          | 1988-1998         | 1999        | 2004        | 2009        | 2014        | 2019        | 2024                   |
| <b>11</b>                                     | <b>0.1</b>              | <b>N</b>            | <b>10.9 - 23.8</b>       | <b>3.6 - 28.2</b> | <b>12.7</b> | <b>3.5</b>  | <b>9.7</b>  | <b>3.5</b>  | <b>2.1</b>  | <b>10.4</b>            |
| 109                                           | 0.2                     | W                   | -                        | 3.6 - 30.9        | 16.4        | 10.9        | 10.9        | 19.1        | 20.0        | -                      |
| 103                                           | 0.2                     | E                   | -                        | 2.7 - 23.7        | 16.4        | 5.5         | 8.2         | 4.5         | 13.6        | -                      |
| 4                                             | 0.3                     | E                   | 2.7 - 18.2               | 2.7 - 28.2        | 1.8         | 7.3         | 10.9        | 9.1         | 18.2        | -                      |
| 1                                             | 0.4                     | NE                  | -                        | 12.7 - 40.0       | 18.2        | 17.3        | 26.4        | 8.2         | 22.7        | -                      |
| 27                                            | 0.5                     | S                   | 1.8 - 12.7               | 0.0 - 21.8        | 7.3         | 8.2         | 18.2        | 16.4        | 10.0        | -                      |
| 8                                             | 0.6                     | E                   | -                        | 3.6 - 37.3        | 20.9        | 7.3         | 9.1         | 9.1         | 12.7        | -                      |
| <b>114</b>                                    | <b>0.7</b>              | <b>E</b>            | <b>-</b>                 | <b>0.9 - 32.7</b> | <b>21.8</b> | <b>9.7</b>  | <b>9.7</b>  | <b>11.1</b> | <b>6.3</b>  | <b>6.3</b>             |
| 9                                             | 1.4                     | ENE                 | -                        | 16.4 - 50.0       | 46.4        | 3.6         | 7.3         | 8.2         | 20.9        | -                      |
| 26                                            | 2.6                     | WNW                 | -                        | 0.9 - 32.7        | 2.7         | 4.5         | 16.4        | 4.5         | -           | -                      |
| 30                                            | 3.6                     | NW                  | 30.9 - 58.2              | 4.5 - 40.9        | 13.6        | 2.7         | 18.2        | 10.0        | 8.2         | -                      |
| <b>70</b>                                     | <b>11.5</b>             | <b>SW</b>           | <b>-</b>                 | <b>9.1 - 45.5</b> | <b>11.8</b> | <b>5.6</b>  | <b>38.9</b> | <b>7.6</b>  | <b>17.4</b> | <b>9.0</b>             |
| 71                                            | 23.0                    | NNW                 | -                        | 7.3 - 45.5        | 20.9        | 41.8        | 29.1        | 30.0        | 7.3         | -                      |
| <b>Annually Monitored Plot Averages (3)</b>   |                         |                     | <b>17.3</b>              | <b>19.0</b>       | <b>15.5</b> | <b>3.7</b>  | <b>19.4</b> | <b>7.4</b>  | <b>8.6</b>  | <b>8.6</b>             |
| <b>Expanded Monitoring Plot Averages (10)</b> |                         |                     | <b>19.0</b>              | <b>17.9</b>       | <b>16.5</b> | <b>10.9</b> | <b>15.5</b> | <b>11.9</b> | <b>14.8</b> | <b>8.6<sup>3</sup></b> |

<sup>1</sup> Bold italics indicates plots that are monitored annually. <sup>2</sup> Because of bear safety concerns, live-trapping was stopped after 1 day. No voles were captured during the 1 day of live trapping. <sup>3</sup> n= 3 plots.

**Table 4.** Concentrations of Aroclor PCBs<sup>1</sup> in red-backed voles (mg/kg) collected in the SHTC study area, 1988 – 2024.

| Plot <sup>2</sup>        | Year                     |             |             |             |             |                 |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |                   |
|--------------------------|--------------------------|-------------|-------------|-------------|-------------|-----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------------|
|                          | 1988                     | 1989        | 1990        | 1991        | 1992        | 1993            | 1994        | 1995        | 1996        | 1997        | 1998        | 1999        | 2000        | 2001        | 2002        | 2003        | 2004        | 2005        | 2006        | 2007        | 2008        | 2009        | 2010        | 2011        | 2012        | 2013        | 2014        | 2015        | 2016        | 2019        | 2024 <sup>6</sup> |
| 11 <sup>3</sup>          | <i>n.d.</i> <sup>4</sup> | 0.03        | 0.06        | 0.06        | 0.14        | 0.05            | 0.03        | 0.22        | 0.29        | 0.1         | 0.12        | 0.13        | 0.52        | 0.13        | 0.3         | 0.44        | 0.11        | 0.09        | 0.34        | 0.19        | 0.06        | 0.28        | 0.16        | 0.28        | 0.11        | <i>n.d.</i> | 0.18        | 0.11        | 0.11        | 0.13        | 0.01              |
| 109                      | -                        | -           | 0.06        | -           | 0.37        | 0.23            | 0.21        | 1           | 0.51        | 0.01        | 0.09        | 1.3         | 0.74        | 0.42        | 0.46        | 0.6         | 0.94        | 0.3         | 0.32        | 0.17        | 0.05        | 0.08        | 0.1         | 0.82        | 0.43        | 0.6         | 0.14        | 0.13        | 0.08        | 0.11        | 0.03              |
| 103                      | --                       | -           | 0.41        | 0.21        | 0.44        | 0.19            | 0.29        | 0.68        | 1.1         | 0.46        | 1           | 1.1         | -           | -           | -           | -           | 0.25        | -           | -           | -           | -           | 0.84        | -           | -           | -           | -           | 0.96        | -           | -           | 0.29        | -                 |
| 4                        | <i>n.d.</i>              | 0.05        | 0.47        | 0.68        | 0.34        | 0.28            | 0.54        | 1.9         | 1.4         | 0.66        | 0.81        | 2.1         | 0.26        | 0.14        | 0.37        | 0.36        | 0.73        | 0.47        | 0.51        | 1.01        | 0.24        | 0.31        | 0.36        | 0.83        | 0.27        | 1.4         | 0.49        | 0.42        | 0.40        | 0.45        | 0.06              |
| 110                      | -                        | -           | 0.07        | -           | <i>n.d.</i> | 0.03            | 0.02        | 0.03        | 0.12        | 0.01        | 0.08        | 0.19        | 0.04        | 0.02        | <i>n.d.</i> | 0.05        | 0.21        | -           | 0.03        | 0.03        | 0.02        | 0.02        | 0.04        | 0.21        | 0.11        | 0.11        | 0.15        | 0.06        | 0.02        | 0.01        | 0.02              |
| 104                      |                          |             |             |             |             |                 |             |             |             |             |             | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | 0.33        | -           | -           | -           | -           | 0.13        | -           | -           | 0.20        |                   |
| 102                      |                          |             |             |             |             |                 |             |             |             |             |             | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | 0.16        | -           | -           | -           | -           | 0.38        | -           | -           | 0.16        |                   |
| 1                        | <i>n.d.</i>              | <i>n.d.</i> | 0.04        | 0.07        | <i>n.d.</i> | 0.19            | 0.11        | 0.31        | 1.2         | 0.83        | 0.33        | 0.54        | -           | -           | -           | -           | 0.08        | -           | -           | -           | -           | 0.07        | -           | -           | -           | -           | 0.27        | -           | -           | 0.12        |                   |
| 27                       | <i>n.d.</i>              | <i>n.d.</i> | 0.02        | -           | 0.03        | 0.03            | 0.06        | 0.71        | 0.12        | <i>n.d.</i> | 0.12        | 0.1         | -           | -           | -           | -           | 0.06        | -           | -           | -           | -           | 0.04        | -           | -           | -           | -           | 0.09        | -           | -           | 0.02        |                   |
| 8                        | <i>n.d.</i>              | <i>n.d.</i> | 0.15        | 0.03        | 0.03        | 0.07            | 0.05        | 0.06        | 0.22        | 0.07        | 0.1         | 0.12        | -           | -           | -           | -           | 0.04        | -           | -           | -           | -           | 0.12        | -           | -           | -           | -           | 0.13        | -           | -           | 0.08        |                   |
| 15                       |                          |             |             |             |             |                 |             |             | 0.13        | 0.07        | 0.08        | 0.13        | -           | -           | -           | -           | 0.03        | -           | -           | -           | -           | 0.07        | -           | -           | -           | -           | 0.04        | -           | -           | 0.02        |                   |
| 114                      | -                        | -           | 0.03        | 0.04        | 0.09        | 0.04            | 0.11        | 0.11        | 0.64        | 0.04        | 0.34        | 0.13        | 0.06        | 0.08        | 0.2         | 0.22        | 0.17        | 0.1         | 0.26        | 0.42        | 0.06        | 0.11        | 0.33        | 0.17        | 0.04        | 0.49        | 0.21        | 0.10        | 0.10        | 0.09        | 0.02              |
| 121                      | -                        | -           | 0.06        | <i>n.d.</i> | <i>n.d.</i> | Tr <sup>4</sup> | 0.02        | 0.02        | 0.03        | 0.01        | 0.03        | 0.03        | -           | -           | -           | -           | <i>n.d.</i> | -           | -           | -           | -           | 0.07        | -           | -           | -           | -           | 0.03        | -           | -           | 0.01        |                   |
| 9                        | -                        | -           | 0.02        | 0.02        | 0.02        | 0.02            | 0.02        | 0.02        | 0.03        | <i>n.d.</i> | 0.03        | <i>n.d.</i> | -           | -           | -           | -           | <i>n.d.</i> | -           | -           | -           | -           | <i>n.d.</i> | -           | -           | -           | -           | 0.03        | -           | -           | 0.01        |                   |
| 28                       |                          |             |             |             |             |                 |             |             | 0.03        | 0.02        | 0.02        | 0.07        | -           | -           | -           | -           | <i>n.d.</i> | -           | -           | -           | -           | 0.01        | -           | -           | -           | -           | <i>n.d.</i> | -           | -           | 0.01        |                   |
| 123                      | -                        | -           | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | Tr              | <i>n.d.</i> | 0.01        | 0.03        | 0.03        | 0.02        | 0.04        | 0.01        | 0.03        | <i>n.d.</i> | 0.05        | 0.03        | 0.03        | 0.02        | 0.05        | 0.03        | 0.02        | 0.19        | 0.02        | 0.02        | 0.04        | 0.02        | 0.02        | 0.01        | 0.01        | 0.02              |
| 16                       | -                        | -           | <i>n.d.</i> | <i>n.d.</i> | 0.02        | Tr              | 0.02        | 0.16        | 0.03        | <i>n.d.</i> | 0.03        | 0.01        | -           | -           | -           | -           | 0.02        | -           | -           | -           | -           | 0.02        | -           | -           | -           | -           | 0.02        | -           | -           | 0.01        |                   |
| 117                      | -                        | -           | <i>n.d.</i> | 0.03        | 0.06        | Tr              | 0.02        | 0.04        | 0.26        | 0.04        | 0.07        | 0.05        | <i>n.d.</i> | 0.02        | 0.03        | 0.07        | 0.02        | 0.05        | 0.08        | 0.11        | 0.06        | <i>n.d.</i> | 0.08        | 0.41        | 0.14        | 0.1         | 0.06        | 0.02        | 0.03        | 0.03        | 0.0               |
| 26                       | <i>n.d.</i>              | <i>n.d.</i> | <i>n.d.</i> | -           | -           | <i>n.d.</i>     | <i>n.d.</i> | 0.07        | 0.05        | 0.05        | 0.02        | 0.03        | -           | -           | -           | -           | <i>n.d.</i> | -           | -           | -           | -           | <i>n.d.</i> | -           | -           | -           | -           | <i>n.d.</i> | -           | -           | <i>n.d.</i> |                   |
| 30                       | <i>n.d.</i>              | <i>n.d.</i> | <i>n.d.</i> | 0.02        | <i>n.d.</i> | Tr              | 0.02        | 0.02        | 0.04        | <i>n.d.</i> | 0.03        | <i>n.d.</i> | -           | -           | -           | -           | 0.02        | -           | -           | -           | -           | <i>n.d.</i> | -           | -           | -           | -           | <i>n.d.</i> | -           | -           | <i>n.d.</i> |                   |
| 29                       |                          |             |             |             |             |                 |             |             | 0.01        | <i>n.d.</i> | <i>n.d.</i> | 0.02        | -           | -           | -           | -           | -           | -           | -           | -           | -           | <i>n.d.</i> | -           | -           | -           | -           | 0.02        | -           | -           | <i>n.d.</i> |                   |
| 402                      | -                        | -           | -           | -           | -           | -               | -           | -           | -           | -           | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | 0.01        | 0.05        | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i>       |
| 70                       | -                        | -           | -           | -           | <i>n.d.</i> | <i>n.d.</i>     | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i>       |
| 71                       | -                        | -           | -           | -           | <i>n.d.</i> | <i>n.d.</i>     | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | 0.01        | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i>       |
| Annual (10) <sup>5</sup> | <i>n.d</i>               | 0.04        | 0.10        | 0.16        | 0.11        | 0.06            | 0.09        | 0.33        | 0.33        | 0.09        | 0.56        | 0.40        | 0.17        | 0.09        | 0.14        | 0.18        | 0.22        | 0.11        | 0.16        | 0.20        | 0.06        | 0.08        | 0.13        | 0.28        | 0.11        | 0.28        | 0.13        | 0.09        | 0.09        | 0.08        | 0.02              |
| Expanded (24)            | <i>n.d</i>               | 0.01        | 0.10        | 0.12        | 0.07        | 0.07            | 0.07        | 0.28        | 0.30        | 0.13        | 0.15        | 0.23        | -           | -           | -           | -           | 0.13        | -           | -           | -           | -           | 0.11        | -           | -           | -           | -           | 0.15        | -           | -           | 0.07        | 0.02              |

<sup>1</sup> Aroclor PCBs were not measured in 2017 and 2019 in favour of total PCB by the HRMS method.<sup>2</sup> Order of plots indicate increasing distance from SHTC (plot 11 [100 m] to plot 71 [21 km]). <sup>3</sup> Bold italics indicates plots that are monitored annually. <sup>4</sup> n.d.- Not Detected. ½ the Detection Limit used in all calculations. <sup>5</sup> Numbers in parentheses indicate number of plots. <sup>6</sup> 2024 reflects changes made to the expanded monitoring program – 6 plots are now annually monitored and 4 plots were moved to the expanded monitoring program.

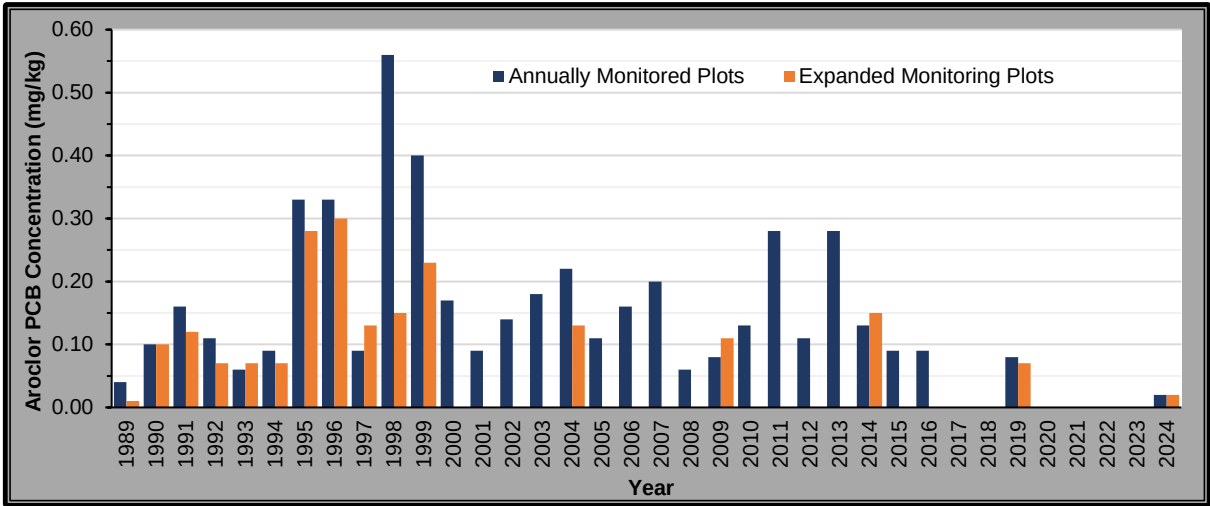


**Figure 3.** Comparison of average yearly Aroclor PCB concentrations at annually monitored plots and expanded monitoring plots, 1989 – 2024.

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**Table 5.** PCB congener concentrations<sup>1</sup> (pg/g) in red-backed voles in SHTC study area, 2000 – 2024.

| Year | Plot <sup>2</sup> |           |           |         |         |        |         |        |                     |       | Averages       |
|------|-------------------|-----------|-----------|---------|---------|--------|---------|--------|---------------------|-------|----------------|
|      | 11                | 109       | 4         | 110     | 114     | 123    | 117     | 402    | 70                  | 71    |                |
| 2000 | 480,000           | -         | 300,000   | -       | 170,000 | -      | 24,000  | 5,500  | 8,800               | 3,600 | <b>141,700</b> |
| 2001 | 169,000           | 563,000   | 163       | 28,800  | 466,000 | 32,100 | 34,600  | 1,960  | 1,440               | 479   | <b>129,754</b> |
| 2002 | 627,382           | 819,944   | 642,093   | 16,715  | 495,810 | 53,724 | 108,457 | 5,557  | 1,799               | 393   | <b>277,187</b> |
| 2003 | 249,000           | 583,000   | 250,000   | 11,500  | 129,000 | 25,100 | 35,300  | 1,330  | 667                 | 199   | <b>128,510</b> |
| 2004 | 70,359            | 1,034,201 | 687,233   | 133,077 | 136,802 | 14,997 | 17,438  | 734    | 1,084               | 406   | <b>209,633</b> |
| 2005 | 17,865            | 114,298   | 140,940   | -       | 34,465  | 7,601  | 8,917   | 953    | 837                 | 455   | <b>36,259</b>  |
| 2006 | 203,545           | 254,766   | 867,215   | 17,820  | 143,851 | 9,468  | 34,099  | 2,944  | 2,363               | 1,273 | <b>153,734</b> |
| 2007 | 91,000            | 340,000   | 360,000   | 19,000  | 200,000 | 23,000 | 45,000  | 4,300  | 1,900               | 2,900 | <b>108,710</b> |
| 2008 | 100,000           | 99,000    | 410,000   | 17,000  | 85,000  | 23,000 | 69,000  | 47,000 | 7,200               | 3,800 | <b>86,100</b>  |
| 2009 | 120,000           | 69,400    | 245,000   | 11,000  | 63,200  | 10,200 | 4,500   | 2,070  | 1,980               | 785   | <b>52,814</b>  |
| 2010 | 192,000           | 98,800    | 351,000   | 43,500  | 294,000 | 19,300 | 74,900  | 3,530  | 1,680               | 795   | <b>107,951</b> |
| 2011 | 281,000           | 960,000   | 547,000   | 225,000 | 121,000 | 16,800 | 42,500  | 2,610  | 3,100               | 939   | <b>219,995</b> |
| 2012 | 181,000           | 815,000   | 357,000   | 136,000 | 250,000 | 27,400 | 45,900  | 6,150  | 1,860               | 1,280 | <b>182,159</b> |
| 2013 | 296,000           | 267,000   | 1,110,000 | 72,400  | 209,000 | 16,400 | 10,400  | 4,050  | 1,480               | 1,440 | <b>198,817</b> |
| 2014 | 114,000           | 115,000   | 399,000   | 105,000 | 263,000 | 19,900 | 42,500  | 4,570  | 935                 | 716   | <b>106,462</b> |
| 2015 | 111,000           | 97,300    | 386,000   | 39,500  | 82,100  | 13,100 | 18,800  | 2,360  | 1,200               | 377   | <b>75,174</b>  |
| 2016 | 90,400            | 87,700    | 429,000   | 21,600  | 86,900  | 11,300 | 33,300  | 2,330  | 770                 | 356   | <b>76,366</b>  |
| 2017 | 110,000           | 96,700    | 317,000   | 21,500  | 91,900  | 12,900 | 16,700  | 2,220  | 934                 | 401   | <b>67,026</b>  |
| 2018 | 84,200            | 187,000   | 368,000   | 26,400  | 102,000 | 14,300 | 34,500  | 2,470  | 779                 | 888   | <b>82,054</b>  |
| 2019 | 98,150            | 83,250    | 304,500   | 11,385  | 68,200  | 7,620  | 21,150  | 1,380  | 663                 | 255   | <b>59,832</b>  |
| 2020 | 63,700            | 60,400    | 161,000   | 7,380   | 45,900  | 12,900 | 17,000  | 1,410  | 533                 | 190   | <b>37,041</b>  |
| 2021 | 39,500            | 31,600    | 92,500    | 13,200  | 54,600  | 18,800 | 6,540   | 1,200  | 544                 | 217   | <b>25,870</b>  |
| 2022 | 65,200            | 66,100    | 171,000   | 28,000  | 121,000 | 4,650  | 51,600  | 663    | 471                 | 191   | <b>50,888</b>  |
| 2023 | 43,500            | 38,700    | 140,000   | 11,200  | 36,100  | 3,510  | 13,100  | 1,710  | 32,900 <sup>3</sup> | 143   | <b>32,086</b>  |
| 2024 | 25,300            | 66,900    | 116,000   | 30,600  | 40,000  | 6,980  | 6,820   | 518    | 460                 | 278   | <b>29,386</b>  |

<sup>1</sup> PCB congener concentrations are the sum of the homologues. <sup>2</sup> Order of plots indicate increasing distance from SHTC (Plot 11 [100 m] to Plot 71 [21 km]). <sup>3</sup> Re-extraction result = 31,700 pg/g.

**Table 6.** TEQ of PCB congeners in red-backed voles (pg/g) collected from the SHTC study area, 2000 - 2024.

| Year               | Plot <sup>1</sup> |       |        |      |                       |       |       |       |                   |       | Averages      |
|--------------------|-------------------|-------|--------|------|-----------------------|-------|-------|-------|-------------------|-------|---------------|
|                    | 11                | 109   | 4      | 110  | 114                   | 123   | 117   | 402   | 70                | 71    |               |
| 2000               | 500               | -     | 670    | -    | 144                   | -     | 33    | 1.3   | 6.7               | 0.06  | <b>193.58</b> |
| 2001               | 108               | 253   | 352    | 18.7 | 252                   | 15    | 23.4  | 0.03  | 0.01              | 0.01  | <b>102.22</b> |
| 2002               | 241               | 346   | 461    | 5.1  | 215                   | 22    | 53    | 0.1   | 0.05              | 0.00  | <b>134.33</b> |
| 2003               | 400               | 385   | 568    | 6.1  | 164                   | 20.4  | 21.2  | 0.5   | 0.0               | 0.00  | <b>156.52</b> |
| 2004               | 94.8              | 120   | 836    | 29.5 | 3.35                  | 11.5  | 11.8  | 0.01  | 0.02              | 0.01  | <b>110.70</b> |
| 2005               | 40.6              | 106   | 267    | -    | 42.2                  | 4.1   | 6.4   | 0.03  | 0.02              | 0.01  | <b>51.82</b>  |
| 2006               | 369.9             | 133.2 | 1039.8 | 12.3 | 96.2                  | 9.5   | 16.7  | 1.36  | 0.04              | 0.02  | <b>167.90</b> |
| 2007               | 119.6             | 411.2 | 614.2  | 7    | 152.1                 | 18.8  | 26.4  | 0.13  | 0.05              | 0.03  | <b>134.95</b> |
| 2008a <sup>2</sup> | 85.49             | 43.97 | 318.3  | 5.65 | 47.07                 | 10.71 | 41.43 | 2.4   | 0.49              | 0.24  | <b>55.58</b>  |
| 2008b <sup>3</sup> | 84.59             | 42.8  | 319.02 | 5.42 | 45.52                 | 10.42 | 40.32 | 2.26  | 0.47              | 0.23  | <b>55.11</b>  |
| 2009               | 139.16            | 51.54 | 279.87 | 5.11 | 36.24                 | 6.96  | 1.71  | 0.55  | 0.52              | 0.26  | <b>52.19</b>  |
| 2010               | 146.72            | 74.46 | 207.07 | 22.1 | 114.18                | 6.05  | 18.93 | 0.02  | 0.01              | 0.00  | <b>58.95</b>  |
| 2011               | 88.3              | 259   | 438    | 115  | 34.9                  | 3.9   | 7.48  | 0.01  | 0.99              | 0.35  | <b>94.79</b>  |
| 2012               | 74.2              | 313   | 294    | 49.3 | 52.2                  | 5.31  | 12.7  | 0.99  | 0.49              | 0.00  | <b>80.22</b>  |
| 2013               | 203               | 224   | 603    | 22.5 | 84.4                  | 5.95  | 3.12  | 0.84  | 0.01              | 0.01  | <b>114.68</b> |
| 2014               | 86.4              | 59.4  | 305    | 115  | 57.6                  | 7.57  | 10.6  | 1.0   | 0.28              | 0.25  | <b>64.31</b>  |
| 2015               | 57.2              | 38.3  | 335    | 15.2 | 38.1                  | 5.85  | 9.32  | 0.83  | 0.56              | 0.15  | <b>50.05</b>  |
| 2016               | 43.5              | 28.4  | 289    | 6    | 26.1                  | 3.9   | 8.62  | 0.54  | 0.30              | 0.13  | <b>40.65</b>  |
| 2017               | 52.2              | 41.8  | 170    | 10.6 | 30.6                  | 4.73  | 5.24  | 0.87  | 0.39              | 0.20  | <b>40.57</b>  |
| 2018               | 39.4              | 98.4  | 232    | 8    | 33.8                  | 4.42  | 11.4  | 0.73  | 0.27              | 0.36  | <b>42.88</b>  |
| 2019               | 45.1              | 45.5  | 198    | 3.84 | 25.5                  | 3.06  | 7.19  | 0.20  | 0.26              | 0.15  | <b>32.88</b>  |
| 2020               | 40.4              | 25.9  | 113    | 2.12 | 18.7                  | 3.7   | 5.6   | 0.51  | 0.24              | 0.07  | <b>21.03</b>  |
| 2021               | 21.5              | 15.8  | 61.1   | 6.15 | 23                    | 7.1   | 2.66  | 0.43  | 0.22              | 0.09  | <b>13.81</b>  |
| 2022               | 25.2              | 23.7  | 111    | 7.62 | 54.4/2.4 <sup>4</sup> | 1.67  | 28.1  | 0.16  | 0.11              | 0.05  | <b>25.20</b>  |
| 2023               | 22.5              | 17.7  | 96.5   | 3.7  | 14.4                  | 1.25  | 3.7   | 0.33  | 11.8 <sup>4</sup> | 0.09  | <b>17.20</b>  |
| 2024               | 11.1              | 33.9  | 65.3   | 5.69 | 12.3                  | 3.10  | 2.26  | 0.205 | 0.24              | 0.154 | <b>14.90</b>  |

<sup>1</sup> Order of plots indicate increasing distance from SHTC (Plot 11 [100 m] to Plot 71 [21 km]). <sup>2</sup> WHO-TEF: World Health Organization Toxic Equivalency Factor (1998). <sup>3</sup> WHO-TEF: World Health Organization Toxic Equivalency Factor (2005). <sup>4</sup> September 2022 result. <sup>4</sup> Re-extraction result = 11.9 pg/g.



**Table 7.** Concentrations of dioxin/furan congeners (pg/g) in red-backed voles collected from the SHTC study area, 2000 - 2024.

| Year | Plot <sup>1</sup> |        |        |                 |       |       |       |                   |                    |       | Averages |
|------|-------------------|--------|--------|-----------------|-------|-------|-------|-------------------|--------------------|-------|----------|
|      | 11                | 109    | 4      | 110             | 114   | 123   | 117   | 402               | 70                 | 71    |          |
| 2000 | 5,757             | 11,026 | 11,827 | 2,229           | 1,585 | 1,840 | 591   | 22                | 110                | 59    | 3,504.6  |
| 2001 | 655               | 2,902  | 9,203  | 460             | 960   | 931   | 1,225 | 8                 | 7                  | 7     | 1,635.8  |
| 2002 | 3,862             | 4,684  | 6,349  | 86              | 1,550 | 1,533 | 1,017 | 143               | 23                 | 6     | 1,925.3  |
| 2003 | 2,994             | 3,938  | 9,432  | 112             | 1,874 | 865   | 273   | 5                 | 25                 | 4     | 1,952.2  |
| 2004 | 1,177             | 530    | 6,095  | 323             | 677   | 370   | 99    | n.d. <sup>3</sup> | 1.6                | 0.2   | 927.3    |
| 2005 | 581               | 1,280  | 2,005  | -. <sup>2</sup> | 344   | 155   | 66    | 2.8               | 11                 | 1.3   | 444.4    |
| 2006 | 8,043             | 648    | 7,633  | 158             | 488   | 345   | 78    | 15                | 22                 | 8     | 1,743.8  |
| 2007 | 1,142             | 2,167  | 2,546  | 54              | 912   | 716   | 85    | 29                | 26                 | 8     | 768.5    |
| 2008 | 862               | 373    | 2,316  | 76              | 223   | 266   | 506   | 20                | 36                 | 18    | 469.6    |
| 2009 | 1,013             | 421    | 1,145  | 44              | 145   | 194   | 26    | 7                 | 31                 | 3     | 302.9    |
| 2010 | 1,720             | 503    | 434    | 168             | 314   | 43    | 48    | 7                 | 3.4                | <0.2  | 324.1    |
| 2011 | 131               | 312    | 1,010  | 438             | 55.8  | 22.9  | 10.2  | 1                 | 1.9                | <0.09 | 198.3    |
| 2012 | 171               | 973    | 1,156  | 168             | 139   | 23    | 43.1  | 4.4               | 15.5               | 1     | 269.4    |
| 2013 | 651               | 732    | 1,493  | 126             | 183   | 30.6  | 37    | 7.7               | 44.4               | 7.3   | 331.2    |
| 2014 | 329               | 162    | 781    | 386             | 91.8  | 82.3  | 27.8  | 13.7              | 32.8               | 7.5   | 191.4    |
| 2015 | 70                | 12     | 472    | 159             | 45.4  | 36.9  | 32.3  | 6.6               | 23.2               | 3.5   | 86.1     |
| 2016 | 123               | 53     | 488    | 31              | 53.8  | 20.5  | 15.6  | 3.7               | 17.0               | 9.2   | 81.5     |
| 2017 | 49.7              | 66.2   | 309.1  | 24.2            | 26.5  | 15.9  | 8.4   | 4.6               | 13.1               | 4.7   | 52.5     |
| 2018 | 77.6              | 173.7  | 257.6  | 21.8            | 31.1  | 19.6  | 11.2  | 3.4               | 7.1                | 1.2   | 60.4     |
| 2019 | 62.2              | 70.4   | 193.3  | 15.6            | 25.3  | 13.1  | 10.5  | 3.2               | 20.3               | 4.3   | 41.8     |
| 2020 | 66.6              | 26.3   | 111.9  | 8.5             | 14.0  | 8.2   | 4.3   | 3.8               | 6.7                | 1.9   | 25.2     |
| 2021 | 27.39             | 17.11  | 37.45  | 11.02           | 15.25 | 6.17  | 9.61  | 5.72              | 11.91              | 3.02  | 14.5     |
| 2022 | 19.66             | 18.27  | 135.15 | 14.17           | 41.74 | 5.81  | 27.17 | 1.34              | 11.85              | 8.44  | 28.4     |
| 2023 | 60.70             | 26.41  | 98.15  | 10.00           | 11.82 | 6.07  | 10.23 | 3.17              | 13.29 <sup>4</sup> | 1.55  | 24.1     |
| 2024 | 13.12             | 31.54  | 56.36  | 12.16           | 10.58 | 11.44 | 5.73  | 2.13              | 8.91               | 3.65  | 16.9     |

<sup>1</sup> Order of plots indicate increasing distance from SHTC (Plot 11 [100 m] to Plot 71 [21 km]). <sup>2</sup> No animals were collected for tissue samples. <sup>3</sup> n.d. - Not Detected. Average values calculated based on ½ the reported detection limit. <sup>4</sup> Re-extraction result = 14.7 pg/g.

**Table 8.** TEQ of dioxin/furan congeners (pg/g) in red-backed voles collected from the SHTC study area, 2000 - 2024.

| Year               | Plot <sup>1</sup> |       |       |                |                        |      |      |       |                   |       | Averages       |
|--------------------|-------------------|-------|-------|----------------|------------------------|------|------|-------|-------------------|-------|----------------|
|                    | 11                | 109   | 4     | 110            | 114                    | 123  | 117  | 402   | 70                | 71    |                |
| 2000               | 2,200             | 4,200 | 4,900 | 820            | 600                    | 700  | 230  | 7.2   | 37                | 20    | <b>1,371.4</b> |
| 2001               | 230               | 1,100 | 3,800 | 160            | 340                    | 350  | 440  | 0.76  | 2.9               | 1.2   | <b>642.5</b>   |
| 2002               | 1,460             | 1,750 | 2,450 | 26.4           | 553                    | 593  | 391  | 19.8  | 2.6               | 1.6   | <b>724.7</b>   |
| 2003               | 1,200             | 1,490 | 3920  | 28.6           | 682                    | 321  | 89.2 | 0.7   | 3.1               | 0.3   | <b>773.5</b>   |
| 2004               | 416               | 187   | 2,190 | 99.5           | 262                    | 126  | 31.7 | 0.79  | 1.5               | 0.27  | <b>331.5</b>   |
| 2005               | 187               | 465   | 754   | - <sup>2</sup> | 104                    | 48.8 | 17.5 | 0.81  | 2                 | 0.43  | <b>157.8</b>   |
| 2006               | 3,071             | 219   | 2,851 | 32.5           | 154                    | 109  | 19.2 | 2.2   | 0.5               | 1.1   | <b>646.0</b>   |
| 2007               | 421               | 765   | 885   | 14             | 283                    | 274  | 21   | 4     | 3                 | 2     | <b>267.2</b>   |
| 2008a <sup>3</sup> | 310               | 110   | 830   | 14             | 58                     | 87   | 44   | 3.6   | 3.4               | 0.92  | <b>146.1</b>   |
| 2008b <sup>4</sup> | 200               | 71    | 530   | 11             | 40                     | 56   | 30   | 2.8   | 4.5               | 0.94  | <b>94.6</b>    |
| 2009               | 217               | 81    | 241   | 7              | 24                     | 36   | 3    | 1     | 2                 | 0     | <b>61.2</b>    |
| 2010               | 366               | 100   | 88    | 32             | 58                     | 8    | 7    | 1     | 3                 | 0     | <b>66.3</b>    |
| 2011               | 19.3              | 53.4  | 234   | 104            | 8.6                    | 4.5  | 2.2  | 1.3   | 2                 | 0.4   | <b>43.0</b>    |
| 2012               | 21.2              | 185.0 | 223.6 | 27.56          | 19.69                  | 4.48 | 6.84 | 0.76  | 2.94              | 0.18  | <b>49.2</b>    |
| 2013               | 121.2             | 129.5 | 197.7 | 17             | 20.3                   | 4    | 3.8  | 0.5   | 4.8               | 1.4   | <b>50.0</b>    |
| 2014               | 53.9              | 22.2  | 133   | 81.3           | 13.0                   | 12.1 | 2.92 | 1.4   | 2.81              | 0.803 | <b>32.3</b>    |
| 2015               | 7.26              | 1.62  | 75.9  | 19.2           | 4.66                   | 5.01 | 4.04 | 0.565 | 2.59              | 0.378 | <b>12.1</b>    |
| 2016               | 14.8              | 6.54  | 80.8  | 3.4            | 5.59                   | 2.79 | 1.73 | 0.488 | 1.97              | 0.745 | <b>11.9</b>    |
| 2017               | 5.38              | 8.71  | 46.8  | 4.27           | 3.03                   | 1.99 | 0.70 | 0.53  | 1.94              | 0.55  | <b>7.4</b>     |
| 2018               | 10.8              | 25.9  | 35.9  | 3.15           | 3.16                   | 3.42 | 1.4  | 0.79  | 1.55              | 0.31  | <b>8.6</b>     |
| 2019               | 9.86              | 10.9  | 33.7  | 2.54           | 3.7                    | 2.19 | 1.39 | 0.435 | 3.05              | 0.65  | <b>6.8</b>     |
| 2020               | 10.2              | 4.32  | 19.0  | 1.43           | 2.1                    | 1.39 | 0.70 | 0.516 | 1.65              | 0.364 | <b>4.2</b>     |
| 2021               | 4.44              | 2.43  | 5.79  | 1.5            | 1.65                   | 0.77 | 1.33 | 0.461 | 1.69              | 0.45  | <b>2.1</b>     |
| 2022               | 3.03              | 2.86  | 12.8  | 2.19           | 5.81/0.27 <sup>5</sup> | 1.04 | 3.97 | 0.201 | 2.04              | 0.284 | <b>3.4</b>     |
| 2023               | 8.72              | 4.28  | 15.4  | 1.91           | 2.02                   | 1.16 | 1.34 | 0.557 | 2.39 <sup>6</sup> | 0.274 | <b>3.8</b>     |
| 2024               | 2.22              | 4.72  | 8.6   | 1.78           | 1.51                   | 1.97 | 0.84 | 0.285 | 2.27              | 0.698 | <b>2.7</b>     |

<sup>1</sup> Order of plots indicate increasing distance from SHTC (plot 11 [100 m] to plot 71 [21 km]). <sup>2</sup> No animals were collected for tissue samples. <sup>3</sup> Between 2000 and 2008a, dioxin and furan TEQs calculated based on NATO I-TEFs (1990). <sup>4</sup> From 2008b and onwards, dioxin and furan TEQs calculated based on WHO (2005). <sup>5</sup> September 2022 result. <sup>6</sup> Re-extraction result = 1.93 pg/g.

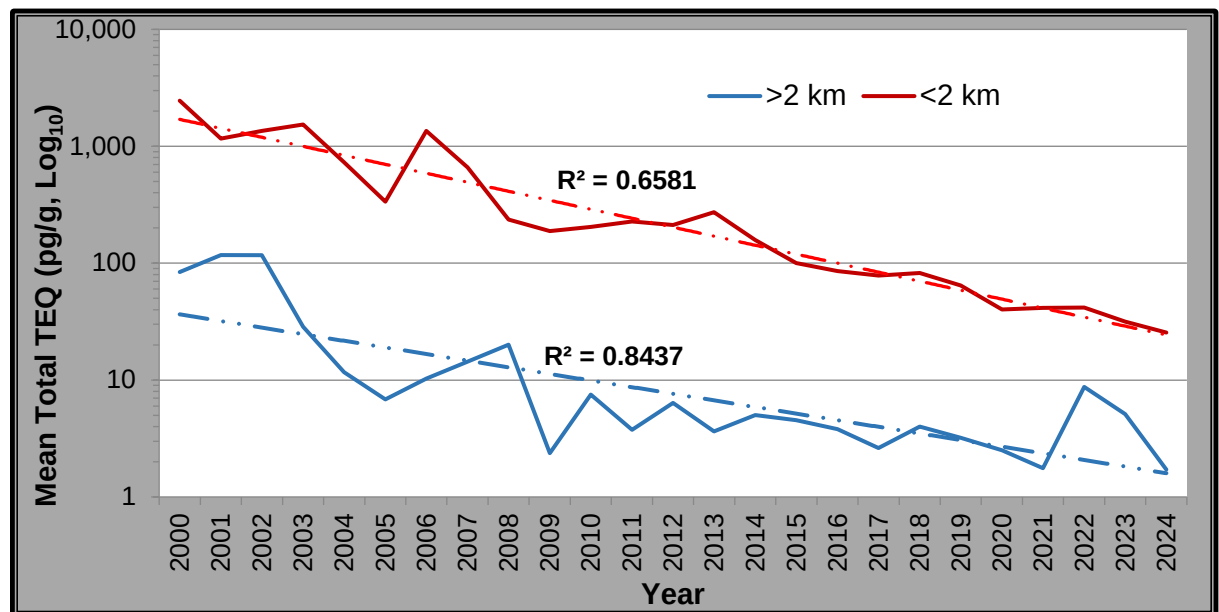


**Figure 4.** Mean total TEQ concentrations at plots  $\leq 2$  km and  $> 2$  km from the SHTC, 2000 - 2024.

**Table 1.** Average May 2024 concentrations (mg/kg dry weight) of inorganic elements in vole tissues compared to historical levels (1986 – 2019) recorded in the SHTC study area.

| Element                    | Baseline (1986-87) | 1994-98               | 2004                    | 2009                  | 2010          | 2011            | 2012          | 2014         | 2019          | 2024        |
|----------------------------|--------------------|-----------------------|-------------------------|-----------------------|---------------|-----------------|---------------|--------------|---------------|-------------|
| Aluminum                   | 124.5              | 64 - 90               | 129                     | 75                    | 91            | 76              | 149           | 99           | 76            | 44          |
| Antimony                   | <0.2 <sup>1</sup>  | <0.2                  | <0.2                    | <0.4                  | 0.02          | 0.01            | 0.01          | 0.009        | 0.03          | <0.006      |
| <b>Arsenic<sup>3</sup></b> | <b>&lt;0.1</b>     | <b>&lt;0.1 – 0.4</b>  | <b>n.d.<sup>2</sup></b> | <b>0.2</b>            | <b>0.08</b>   | <b>&lt;0.14</b> | <b>0.13</b>   | <b>0.11</b>  | <b>0.12</b>   | <b>0.09</b> |
| Barium <sup>4</sup>        | 36.1               | 18 - 24               | 26                      | 37                    | 32            | <b>49</b>       | <b>40</b>     | <b>42</b>    | <b>39</b>     | 26          |
| Beryllium                  | <0.2               | <0.2                  | n.d.                    | <0.2                  | <0.02         | <0.17           | 0.11          | n.d.         | <0.007        | <0.005      |
| <b>Cadmium</b>             | <b>0.37</b>        | <b>&lt;0.2</b>        | <b>&lt;0.2</b>          | <b>&lt;0.4</b>        | <b>0.15</b>   | <b>0.19</b>     | <b>0.19</b>   | <b>0.18</b>  | <b>0.18</b>   | <b>0.16</b> |
| Calcium                    | 32,000             | 25,897–32,487         | 29,813                  | <b>39,615</b>         | <b>40,248</b> | <b>47,660</b>   | <b>36,256</b> | 30,567       | <b>37,475</b> | 25,910      |
| <b>Chromium</b>            | <b>1.3</b>         | <b>1.9 – 3.6</b>      | <b>2.5</b>              | <b>&lt;0.4</b>        | <b>0.4</b>    | <b>0.3</b>      | <b>1.1</b>    | <b>0.8</b>   | <b>0.1</b>    | <b>0.1</b>  |
| Cobalt                     | 0.3                | <0.2 – 0.3            | 0.4                     | <b>0.8</b>            | 0.3           | 0.3             | 0.3           | 0.3          | 0.3           | 0.2         |
| <b>Copper</b>              | <b>9.9</b>         | <b>0 - 21</b>         | <b>22.1</b>             | <b>21.1</b>           | <b>36.2</b>   | <b>13.2</b>     | <b>19.5</b>   | <b>22.2</b>  | <b>11.6</b>   | <b>13.8</b> |
| Iron                       | 303                | 291 - <b>317</b>      | <b>425</b>              | <b>400</b>            | <b>405</b>    | <b>468</b>      | <b>344</b>    | <b>337</b>   | <b>350</b>    | <b>357</b>  |
| <b>Lead</b>                | <b>1.1</b>         | <b>1 – 2</b>          | <b>&lt;1</b>            | <b>1</b>              | <b>1</b>      | <b>1.3</b>      | <b>0.8</b>    | <b>1.8</b>   | <b>1.0</b>    | <b>0.4</b>  |
| Magnesium                  | 1,500              | 1,113 – 1,427         | 1,512                   | <b>1,738</b>          | <b>1,796</b>  | <b>2,006</b>    | <b>1,353</b>  | <b>1,580</b> | <b>1,561</b>  | 1,292       |
| Manganese                  | 23                 | <b>28 - 41</b>        | <b>42</b>               | <b>50</b>             | <b>57</b>     | <b>47</b>       | <b>44</b>     | <b>44</b>    | <b>62</b>     | <b>43</b>   |
| <b>Mercury</b>             | <b>0.3</b>         | <b>0.11 – 0.39</b>    | <b>0.17</b>             | <b>-.<sup>4</sup></b> | <b>0.29</b>   | <b>0.54</b>     | <b>0.28</b>   | <b>0.31</b>  | <b>0.21</b>   | <b>0.26</b> |
| Molybdenum                 | 1.1                | <1 - 1                | <1                      | 0.6                   | 0.6           | 0.6             | 0.5           | 0.6          | 0.6           | 0.5         |
| <b>Nickel</b>              | <b>2</b>           | <b>0.5 – 1.7</b>      | <b>8.6</b>              | <b>3.5</b>            | <b>4.8</b>    | <b>1.5</b>      | <b>5.3</b>    | <b>4.1</b>   | <b>1.2</b>    | <b>0.5</b>  |
| Phosphorus                 | 24,000             | 19,250–22,447         | 21,516                  | <b>35,944</b>         | <b>32,695</b> | <b>36,073</b>   | 23,634        | 23,079       | <b>27,848</b> | 20,810      |
| Potassium                  | 12,700             | 10,224– <b>18,433</b> | 11,423                  | 12,758                | <b>13,340</b> | <b>17,702</b>   | 12,603        | 11,095       | 11,342        | 11,298      |
| Selenium                   | 0.59               | <0.2 – <b>0.9</b>     | <b>1.3</b>              | <b>1.1</b>            | <b>0.8</b>    | <b>&lt;0.4</b>  | <b>0.9</b>    | <b>1.0</b>   | <b>0.8</b>    | <b>0.8</b>  |
| Silver                     | <0.2               | <0.2                  | <0.2                    | <0.2                  | 0.02          | 0.37            | n.d.          | 0.004        | <0.0353       | 0.010       |
| Sodium                     | 4,700              | 3,124 – 4,753         | 4,704                   | <b>5,441</b>          | <b>5,828</b>  | <b>5,683</b>    | <b>4,967</b>  | 4,494        | 4,821         | 4,692       |
| Strontium                  | -. <sup>5</sup>    | -                     | -                       | 18.4                  | 18            | 23.1            | 16            | 16.6         | 20.7          | 13.8        |
| Thallium                   | -                  | -                     | -                       | <0.04                 | <0.02         | <0.03           | <0.02         | n.d.         | <0.0014       | 0.003       |
| Tin                        | <2                 | <2                    | <2                      | 0.8                   | 0.5           | 0.6             | 0.5           | 1.0          | 0.1           | 0.2         |
| Titanium                   | <b>1</b>           | <b>1.1 – 4.1</b>      | <b>5.2</b>              | <b>1.5</b>            | <b>2.2</b>    | <b>2</b>        | <b>3.4</b>    | <b>3.5</b>   | -             | -           |
| Vanadium                   | 2.1                | <2 - <b>3</b>         | <2                      | 0.4                   | 0.2           | 0.2             | 0.3           | 0.028        | 0.2           | 0.11        |
| <b>Zinc</b>                | <b>104</b>         | <b>94 - 157</b>       | <b>90</b>               | <b>123</b>            | <b>128</b>    | <b>110</b>      | <b>113</b>    | <b>94</b>    | <b>111</b>    | <b>91</b>   |

<sup>1</sup> < indicates below lowest detection limit. <sup>2</sup> n.d. – Below detection limit. <sup>3</sup> Bold indicates heavy metals of concern. <sup>4</sup> Bold italics indicates monitoring years where metal concentrations exceeded baseline concentrations. <sup>5</sup> - Indicates not analyzed.

**Table 2.** Comparison of average PAH concentrations (mg/kg) between the 2019 and 2024 expanded monitoring years at plots in the SHTC study area.

| Plot          | Average PAH Concentrations (mg/kg) |                | % Change     |
|---------------|------------------------------------|----------------|--------------|
|               | 2019                               | 2024           |              |
| 11            | 0.01415                            | 0.0998         | <b>605</b>   |
| 109           | 0.01323                            | 0.0972         | <b>635</b>   |
| 4             | 0.01431                            | 0.07357        | <b>414</b>   |
| 110           | 0.01326                            | 0.07246        | <b>447</b>   |
| 114           | 0.01384                            | 0.10515        | <b>660</b>   |
| 123           | 0.01507                            | 0.12491        | <b>729</b>   |
| 117           | 0.0137                             | 0.16145        | <b>1,079</b> |
| 402           | 0.01266                            | 0.04876        | <b>285</b>   |
| 70            | 0.01479                            | 0.09956        | <b>573</b>   |
| 71            | 0.01308                            | 0.10174        | <b>678</b>   |
| <b>Totals</b> | <b>0.13809</b>                     | <b>0.98460</b> | <b>613</b>   |

**Table 3.** Comparison of population and chemical data collected at the 3 annual monitoring plots in the vicinity of the SHTC 2023.

| Parameter                        |                                        | Plot 11    | Plot 114      | Plot 70     |
|----------------------------------|----------------------------------------|------------|---------------|-------------|
| Distance to SHTC plant site (km) |                                        | 0.1        | 0.7           | 11.5        |
| Direction to SHTC plant site     |                                        | Upwind (N) | Downwind (SE) | Upwind (SW) |
| Population Data                  | June population density (no./ha)       | 2.1        | 0.7           | 3.5         |
|                                  | September population density (no./ha)  | 10.4       | 6.3           | 9.0         |
|                                  | June sex ratio (M:F)                   | 3M         | 1F            | 4.0         |
|                                  | September sex ratio (M:F)              | 0.9        | 0.5           | 0.3         |
|                                  | % voles in heavy weight class in June  | 67         | 100           | 80          |
|                                  | % voles in heavy weight class in Sept. | 13         | 0             | 0           |
|                                  | % heavy voles breeding in June         | 67         | 100           | 40          |
|                                  | % heavy voles breeding in Sept.        | 13         | 11            | 0           |
| Chemical Data                    | PCB congeners (pg/g) in May            | 25,300     | 40,000        | 460         |
|                                  | Dioxins/furans (pg/g) in May           | 13         | 11            | 4           |
|                                  | PCB TEQ (pg/g) in May                  | 11         | 12            | 0.24        |
|                                  | Dioxin/furan TEQ (pg/g) in May         | 2          | 2             | 2           |
|                                  | Total TEQ (pg/g) in May                | 13         | 14            | 2.4         |
|                                  | Heavy Metals (mg/kg dwt) in May        | 1,781      | 2,293         | 2,192       |
|                                  | PAHs (mg/kg) in May                    | 0.0998     | 0.10515       | 0.09956     |

<sup>1</sup> Not detected

**Table 4.** Summary of current and recommended annual/expanded red-backed vole monitoring programs.

| Plot No.                                                           | Distance from SHTC the (km) | Direction from the SHTC | Tissue Collection/Snap-trapping <sup>1</sup> |                           |                                                                          | Population Monitoring/ Live-trapping <sup>1</sup> |
|--------------------------------------------------------------------|-----------------------------|-------------------------|----------------------------------------------|---------------------------|--------------------------------------------------------------------------|---------------------------------------------------|
|                                                                    |                             |                         | Metals, PAHs <sup>1</sup>                    | Aroclor PCBs <sup>2</sup> | PCB Congeners and TEQs, Dioxins/Furans and TEQs, Total TEQs <sup>3</sup> |                                                   |
| Previous Annual and Expanded Monitoring Programs (Prior to 2024):  |                             |                         |                                              |                           |                                                                          |                                                   |
| 11                                                                 | 0.1                         | N                       | ✓                                            | ✓                         | ☑                                                                        | ☑                                                 |
| 109                                                                | 0.2                         | W                       | ✓                                            | ✓                         | ☑                                                                        | ✓                                                 |
| 103                                                                | 0.2                         | SE                      | ✓                                            | ✓                         | -                                                                        | ✓                                                 |
| 4                                                                  | 0.3                         | E                       | ✓                                            | ✓                         | ☑                                                                        | ✓                                                 |
| 110                                                                | 0.3                         | W                       | ✓                                            | ✓                         | ☑                                                                        | -                                                 |
| 104                                                                | 0.4                         | NW                      | ✓                                            | ✓                         | -                                                                        | -                                                 |
| 102                                                                | 0.4                         | E                       | ✓                                            | ✓                         | -                                                                        | -                                                 |
| 1                                                                  | 0.4                         | NE                      | ✓                                            | ✓                         | -                                                                        | ✓                                                 |
| 27                                                                 | 0.5                         | S                       | ✓                                            | ✓                         | -                                                                        | ✓                                                 |
| 8                                                                  | 0.6                         | E                       | ✓                                            | ✓                         | -                                                                        | ✓                                                 |
| 15                                                                 | 0.6                         | NW                      | ✓                                            | ✓                         | -                                                                        | -                                                 |
| 114                                                                | 0.7                         | E                       | ✓                                            | ✓                         | ☑                                                                        | ☑                                                 |
| 121                                                                | 1.2                         | N                       | ✓                                            | ✓                         | -                                                                        | -                                                 |
| 9                                                                  | 1.4                         | ENE                     | ✓                                            | ✓                         | -                                                                        | ✓                                                 |
| 28                                                                 | 1.4                         | WNW                     | ✓                                            | ✓                         | -                                                                        | -                                                 |
| 123                                                                | 1.6                         | NE                      | ✓                                            | ✓                         | ☑                                                                        | -                                                 |
| 16                                                                 | 2.4                         | E                       | ✓                                            | ✓                         | -                                                                        | -                                                 |
| 117                                                                | 2.4                         | SE                      | ✓                                            | ✓                         | ☑                                                                        | -                                                 |
| 26                                                                 | 2.6                         | WNW                     | ✓                                            | ✓                         | -                                                                        | ✓                                                 |
| 30                                                                 | 3.6                         | NW                      | ✓                                            | ✓                         | -                                                                        | ✓                                                 |
| 29                                                                 | 3.9                         | E                       | ✓                                            | ✓                         | -                                                                        | -                                                 |
| 402                                                                | 7.5                         | E                       | ✓                                            | ✓                         | ☑                                                                        | -                                                 |
| 70                                                                 | 11.5                        | SW                      | ✓                                            | ✓                         | ☑                                                                        | ☑                                                 |
| 71                                                                 | 21.0                        | NNW                     | ✓                                            | ✓                         | ☑                                                                        | ✓                                                 |
| Current Annual and Expanded Monitoring Programs (2024 and Onward): |                             |                         |                                              |                           |                                                                          |                                                   |
| 11                                                                 | 0.1                         | N                       | ✓                                            | ✓                         | ☑                                                                        | ☑                                                 |
| 109                                                                | 0.2                         | W                       | ✓                                            | ✓                         | ☑                                                                        | -                                                 |
| 4                                                                  | 0.3                         | E                       | ✓                                            | ✓                         | ☑                                                                        | -                                                 |
| 110                                                                | 0.3                         | W                       | ✓                                            | ✓                         | ✓                                                                        | -                                                 |
| 114                                                                | 0.7                         | E                       | ✓                                            | ✓                         | ☑                                                                        | ☑                                                 |
| 123                                                                | 1.6                         | NE                      | ✓                                            | ✓                         | ✓                                                                        | -                                                 |
| 117                                                                | 2.4                         | SE                      | ✓                                            | ✓                         | ✓                                                                        | -                                                 |
| 402                                                                | 7.5                         | E                       | ✓                                            | ✓                         | ✓                                                                        | -                                                 |
| 70                                                                 | 11.5                        | SW                      | ✓                                            | ✓                         | ☑                                                                        | ☑                                                 |
| 71                                                                 | 21.0                        | NNW                     | ✓                                            | ✓                         | ☑                                                                        | -                                                 |

<sup>1</sup> Bold boxed check marks ☑ indicate plots that are monitored annually for vole tissue collection and population studies. Plain check marks ✓ indicate plots that are part of the expanded monitoring program (i.e., once every 5 years). <sup>2</sup> The low resolution GC-ECD method historically used for Aroclor PCBs was discontinued in Canada in 2019. <sup>3</sup> HRMS congener-specific methodology would be used for all expanded monitoring plots in response to a red-backed vole trigger.

# 1

## 1.0 INTRODUCTION

The Swan Hills Treatment Centre (SHTC) is a fully integrated hazardous waste treatment facility located in west central Alberta, approximately 12 km northeast of the Town of Swan Hills. It is the only facility of its kind in Canada and one of only a few in the world. The SHTC plays a major role in the disposal of hazardous waste such as polychlorinated biphenyls (PCBs) and dioxins and furans (which for the most part, is a contaminant in many of the wastes received at the facility). The SHTC also has the capability to treat a wide range of hazardous waste types on-site including fuel blend liquids, paint related materials, pesticides, halogenated and non-halogenated organic liquids, pharmaceuticals, bulk solids, gas plant filters, inorganic aqueous liquids and lab packs. The SHTC also began accepting biomedical waste in July 2015 but does not accept or treat radioactive or explosive wastes.

An integrated environmental monitoring program involving ambient air quality, surface and groundwater, soils, vegetation, and wildlife was initiated at the SHTC in 1986. The wildlife monitoring program, which focuses on the southern red-backed vole (*Myodes gapperi*), has been modified on several occasions in response to changing priorities. These modifications involved the consolidation of some monitoring sites and the addition of others along with increasing the scope of the chemical analyses and reducing the number of plots used for vole tissue collection and population monitoring. With this new protocol, there was a requirement that the wildlife monitoring program be expanded to include plots monitored prior to 1999 at 5-year intervals. The expanded wildlife monitoring program was subsequently conducted in 2004, 2009, 2014, 2019, and most recently, in 2024. In 2006, the collection period for vole tissues was changed from February and June to a single collection period conducted only in May of each monitoring year. However, as has been the case since the beginning of the monitoring program, vole population monitoring has still been conducted in June and September.

The southern red-backed vole was selected as the indicator species for the wildlife monitoring program because of its relative abundance near the SHTC and its sedentary nature, which allows information obtained through the study of these animals to be related to specific locations within the study area. The wildlife monitoring program involves studies to determine the demographic characteristics of red-backed voles and the collection of animals to determine concentrations of chemicals (PCBs and dioxins/furans along with other potential

contaminants such as metals and polyaromatic hydrocarbons [PAHs]) in their tissues. The following report presents the results of the 2024 expanded wildlife monitoring program, which represents the fifth 5 year expanded monitoring cycle for the SHTC.



# 2

## 2.0 METHODS

### 2.1 Scope of the Monitoring Program

Since the red-backed vole monitoring program was intended to be adaptive, the program has been previously modified based on changing priorities, monitoring results, changes in the facility's waste stream, and/or updates to analytical methodologies over time since 1986. These modifications involved the consolidation of some monitoring sites and the addition of others. Changes to the monitoring program, which involved altering the stratification of study plots, were made in June 1996 in response to an air quality assessment for PCB emissions that was conducted in 1994. In addition, forest clearing, which was implemented as a fire protection measure around the SHTC, resulted in the loss of 2 monitoring plots in spring 1998.

The monitoring program was again modified in 2000 to focus sampling on the types of chemicals previously detected in the SHTC study area. As a result, the number of plots used for both vole population monitoring and vole tissue collection for tissue analysis was reduced, while the scope of the chemical analyses was increased. Prior to 2000, population monitoring was conducted on 13 plots but was reduced to 3 plots (plots 11, 114, and 70) in 2000. In addition, the size of the 3 annually monitored plots was increased from 1.1 ha to 1.44 ha, 2 of which were relocated. Plots 11 and 70 were relocated approximately 250 m south and 750 m north of their previous locations, respectively, to sites used by the Institute for Risk Research in response to a field study conducted in 1999. In addition, plot 71 was moved approximately 2 km closer to the SHTC because the original monitoring site was clearcut in 2015.

The scope of the tissue chemistry component was also changed. Prior to 2000, organic analyses focused on Aroclor PCBs, which were analyzed in voles collected from between 21 and 32 different plots. The number of plots used for tissue analysis was reduced in 2000 to 10 plots but at that time, analyses for PCB congeners, and dioxins and furans were expanded to include voles from all the 10 annually monitored plots. Part of the new monitoring protocol required that monitoring be expanded every 5 years to include the plots sampled prior to 1999 ( $n = 24$ ). The expanded sampling protocol has since been conducted in 2004, 2009, 2014, 2019, and again in 2024. In addition, chemicals other than PCBs and dioxins/furans (e.g., metals, PAHs) in vole tissues have only been periodically analyzed since 2004. A further change in sampling protocol was made in 2006, when tissue collection was conducted only in May. In previous years, red-backed vole tissues were collected in February and June.

Beginning in 2008, the basis for calculating congener PCB, and dioxin and furan toxicity equivalencies (TEQ) was changed. Mammalian toxicity equivalency factors (TEFs) for compounds exhibiting dioxin-like characteristics were updated by the World Health Organization in 2005 (WHO 2005). These new TEFs were used to calculate PCB and dioxin and furan TEQs in vole tissue samples collected in 2009 and have been used as the new benchmark for all chemical monitoring at the SHTC since then. Then in 2017, the analysis for Aroclor PCBs in vole tissues was dropped from the annual monitoring program and shifted to the expanded monitoring program. Previous results from the SHTC study area have indicated that while measured concentrations of PCBs can vary between the Aroclor and high-resolution mass spectrometry (HRMS) methods, the HRMS method is considered more accurate because results are not affected by weathering and the effects of metabolic activity.

Based on a review of long-term data (38 years) for the SHTC wildlife monitoring program, recommendations were made in the 2023 annual monitoring report (WMC 2024) where sampling effort of the expanded monitoring program would be reduced to focus on the 3 annually monitored population plots (plots 11, 114, and 70) and the 10 annually monitored tissue collection plots (plots 11, 114, 70, 4, 109, 110, 117, 123, 70 and 71) (Table 2-1). While vole populations and tissue contaminant levels have varied over the years, there was no indication that SHTC operations affected red-backed vole demography despite elevated chemical levels in vole tissues at plots close to the facility. Even though concentrations of PCB TEQs and dioxin/furan TEQs were, for the most part, at historically low concentrations, the continued presence of elevated contaminants in voles collected near the SHTC indicates that there is still a need to continue monitoring vole demography and tissue chemistry.

Therefore, changes to vole monitoring program were adopted for the 2024 expanded monitoring program and onward (Table 2-1). If warranted in the future (e.g., facility upset event), plots previously part of the expanded monitoring program (10 population and 24 tissue collection plots) would be sampled based on the key trigger responses developed for red-backed voles. Therefore, the 2024 expanded wildlife monitoring program was focused on demographic studies of voles on 3 live-trapping plots in June and September while concentrations of Aroclor PCBs, PCB congeners and TEQs, dioxin/furan congeners and TEQs, total TEQs, metals and PAHs were determined for animals collected from 10 plots in May (Table 2-1). Voles would continue to be archived for a 5-year period to provide tissue reference material if required. The annual monitoring program will now be comprised of 3 population monitoring plots and 6 tissue collections plots (4 experimental and 2 control/reference plots) (Table 2-1).

**Table 2-1.** Summary of previous and current annual/expanded red-backed vole monitoring programs.

| Plot No.                                                           | Distance from SHTC the (km) | Direction from the SHTC | Tissue Collection/Snap-trapping <sup>1</sup> |                           |                                                                          | Population Monitoring/ Live-trapping <sup>1</sup> |
|--------------------------------------------------------------------|-----------------------------|-------------------------|----------------------------------------------|---------------------------|--------------------------------------------------------------------------|---------------------------------------------------|
|                                                                    |                             |                         | Metals, PAHs <sup>1</sup>                    | Aroclor PCBs <sup>2</sup> | PCB Congeners and TEQs, Dioxins/Furans and TEQs, Total TEQs <sup>3</sup> |                                                   |
| Previous Annual and Expanded Monitoring Programs (Prior to 2024):  |                             |                         |                                              |                           |                                                                          |                                                   |
| 11                                                                 | 0.1                         | N                       | ✓                                            | ✓                         | ☑                                                                        | ☑                                                 |
| 109                                                                | 0.2                         | W                       | ✓                                            | ✓                         | ☑                                                                        | ✓                                                 |
| 103                                                                | 0.2                         | SE                      | ✓                                            | ✓                         | -                                                                        | ✓                                                 |
| 4                                                                  | 0.3                         | E                       | ✓                                            | ✓                         | ☑                                                                        | ✓                                                 |
| 110                                                                | 0.3                         | W                       | ✓                                            | ✓                         | ☑                                                                        | -                                                 |
| 104                                                                | 0.4                         | NW                      | ✓                                            | ✓                         | -                                                                        | -                                                 |
| 102                                                                | 0.4                         | E                       | ✓                                            | ✓                         | -                                                                        | -                                                 |
| 1                                                                  | 0.4                         | NE                      | ✓                                            | ✓                         | -                                                                        | ✓                                                 |
| 27                                                                 | 0.5                         | S                       | ✓                                            | ✓                         | -                                                                        | ✓                                                 |
| 8                                                                  | 0.6                         | E                       | ✓                                            | ✓                         | -                                                                        | ✓                                                 |
| 15                                                                 | 0.6                         | NW                      | ✓                                            | ✓                         | -                                                                        | -                                                 |
| 114                                                                | 0.7                         | E                       | ✓                                            | ✓                         | ☑                                                                        | ☑                                                 |
| 121                                                                | 1.2                         | N                       | ✓                                            | ✓                         | -                                                                        | -                                                 |
| 9                                                                  | 1.4                         | ENE                     | ✓                                            | ✓                         | -                                                                        | ✓                                                 |
| 28                                                                 | 1.4                         | WNW                     | ✓                                            | ✓                         | -                                                                        | -                                                 |
| 123                                                                | 1.6                         | NE                      | ✓                                            | ✓                         | ☑                                                                        | -                                                 |
| 16                                                                 | 2.4                         | E                       | ✓                                            | ✓                         | -                                                                        | -                                                 |
| 117                                                                | 2.4                         | SE                      | ✓                                            | ✓                         | ☑                                                                        | -                                                 |
| 26                                                                 | 2.6                         | WNW                     | ✓                                            | ✓                         | -                                                                        | ✓                                                 |
| 30                                                                 | 3.6                         | NW                      | ✓                                            | ✓                         | -                                                                        | ✓                                                 |
| 29                                                                 | 3.9                         | E                       | ✓                                            | ✓                         | -                                                                        | -                                                 |
| 402                                                                | 7.5                         | E                       | ✓                                            | ✓                         | ☑                                                                        | -                                                 |
| 70                                                                 | 11.5                        | SW                      | ✓                                            | ✓                         | ☑                                                                        | ☑                                                 |
| 71                                                                 | 21.0                        | NNW                     | ✓                                            | ✓                         | ☑                                                                        | ✓                                                 |
| Current Annual and Expanded Monitoring Programs (2024 and Onward): |                             |                         |                                              |                           |                                                                          |                                                   |
| 11                                                                 | 0.1                         | N                       | ✓                                            | ✓                         | ☑                                                                        | ☑                                                 |
| 109                                                                | 0.2                         | W                       | ✓                                            | ✓                         | ☑                                                                        | -                                                 |
| 4                                                                  | 0.3                         | E                       | ✓                                            | ✓                         | ☑                                                                        | -                                                 |
| 110                                                                | 0.3                         | W                       | ✓                                            | ✓                         | ✓                                                                        | -                                                 |
| 114                                                                | 0.7                         | E                       | ✓                                            | ✓                         | ☑                                                                        | ☑                                                 |
| 123                                                                | 1.6                         | NE                      | ✓                                            | ✓                         | ✓                                                                        | -                                                 |
| 117                                                                | 2.4                         | SE                      | ✓                                            | ✓                         | ✓                                                                        | -                                                 |
| 402                                                                | 7.5                         | E                       | ✓                                            | ✓                         | ✓                                                                        | -                                                 |
| 70                                                                 | 11.5                        | SW                      | ✓                                            | ✓                         | ☑                                                                        | ☑                                                 |
| 71                                                                 | 21.0                        | NNW                     | ✓                                            | ✓                         | ☑                                                                        | -                                                 |

<sup>1</sup> Bold boxed check marks ☑ indicate plots that are monitored annually for vole tissue collection and population studies. Plain check marks ✓ indicate plots that are part of the expanded monitoring program (i.e., once every 5 years).

<sup>2</sup> The low resolution GC-ECD method historically used for Aroclor PCBs was discontinued in Canada in 2019.

<sup>3</sup> HRMS congener-specific methodology would be used for all expanded monitoring plots in response to a red-backed vole trigger.

## **2.2 Red-backed Vole Population Monitoring**

Red-backed vole population studies were conducted on 3 live-trapping plots from June 17 - 21 and from September 10 - 14, 2024 (Figure 2-1). Two of the plots (plots 11 and 114) are located near the SHTC while the control or reference site (plot 70) is located near the Town of Swan Hills. Each plot was comprised of 64 trapping stations (8 x 8 grid) spaced at 15 m intervals (1.44 ha). A non-folding Sherman aluminum live trap (7.62 cm x 7.62 cm x 22.86 cm) was placed at a suitable location (e.g., beside a fallen log, in a small mammal runway, close to a small mammal tunnel) within 1.5 m of the station marker. Traps were baited with a mixture of peanut butter and rolled oats. Polyester fibre bedding material was placed in each trap to protect animals from adverse weather conditions. To further reduce trapping mortality, traps were covered with natural materials, such as bark or moss, to provide additional protection from inclement weather, and were checked twice daily, once in the morning and once in the evening.

At first capture, red-backed voles were marked with a uniquely numbered aluminum ear tag, and the following information was recorded: tag number, date/time of capture, plot and station numbers, sex, weight, reproductive condition, and comments (e.g., external abnormalities, stress at release, etc.). The reproductive condition of males was determined by the position of the testes (abdominal or scrotal), whereas that of females was determined by the condition of the nipples (not visible, visible, lactating) and the vagina (perforate or imperforate). Only tag numbers were recorded for second and subsequent captures of each tagged animal. For other incidentally captured non-target animals, only species, date, and capture location were recorded and if alive, the animals were released.

## **2.3 Red-backed Vole Tissue Collection and Analysis**

Red-backed voles were collected for tissue analyses using wooden Victor metal pedal snap traps at the 10 plots located in the vicinity of the SHTC from May 19 and continued to May 25, 2024 (Table 2-1, Figure 2.1). The snap traps were baited with a mixture of rolled oats and peanut butter and placed along logs, runways or near the entrances to vole tunnels and were checked once daily. Where tissue collection was associated with a population monitoring plot, snap traps were placed at least 100 m from the population monitoring plot in similar habitat. Snap-trapping was continued until a minimum of 2 and a maximum of 6 voles/plot were collected to ensure sufficient tissues were collected for lab analysis.

Collected voles were placed in 120 ml clear glass jars with Teflon-lined lids, which were labelled with the following information: capture date and location, specimen number, sex, reproductive condition, and body weight. This information was also recorded in field books and on Specimen Collection Forms. Collected animals were kept frozen until submitted to the

ALS Global for chemical analyses of Aroclor PCBs, congener PCBs, PCB TEQs, dioxin/furan congeners, dioxin/furan TEQs, total TEQs, metals, and PAHs (Appendix 1). Results of all chemical analyses were reported as wet weight except for heavy metals which were reported as dry weight. Where possible, 6 whole body adult voles (3 males and 3 females) were composited (or homogenized) from each plot prior to chemical analysis to minimize within and between-year variability. An aliquot of the homogenate was then used for each type of tissue analysis conducted.

As in previous expanded monitoring years, 3 types of PCB analyses were conducted in 2024 which are briefly summarized below:

- **Aroclor PCBs** – Historically, Aroclor PCBs were analyzed by US EPA method 3550/8082 (GC-ECD), however, this methodology is no longer used in Canada. Therefore, Aroclor PCBs in 2024 were analyzed by US EPA method 1668C (GC/HRMS isotope dilution) using a Waters Premier instrument and using an SPB-Octyl GC column. Quantification was relative to a calibration standard mix with all 209 chlorinated biphenyl congeners. Evaluation of the Aroclor pattern was by statistical pattern matching relative to George Frame's congener/Aroclor data base where each commercial Aroclor was characterized for the percent contribution of each of the 209 congeners. Detection limits are typically reported in the low parts per billion (ppb, ng/g, mg/kg, or µg/g) range.
- **Congener Specific PCB Analysis** – This method involves quantitative determination of virtually all 209 PCB congeners using HRMS. The method also provides an estimate of PCB concentration based on the sum of homolog groups. The congener specific analysis is more sensitive and has much lower detection limits than the Aroclor PCB method. Detection limits are typically in the parts per trillion (ppt) or picograms per gram (pg/g) range for individual congeners. In addition, the method provides a more accurate assessment of the PCB concentration in environmental samples, as it does not rely on comparison to an Aroclor standard. The 2024 analysis included 162 PCB congeners, including PCBs that co-elute.
- **Toxic PCBs (PCB Toxic Equivalency [TEQ])** – This term is used to describe a group of 12 PCB congeners that exhibit dioxin-like activity. These congeners are included in the congener specific PCB analysis but are discussed separately because of their recognized toxicity. Toxicity equivalency factors (TEFs) have been developed by the World Health Organization (WHO) to express the toxic potential of each congener relative to 2,3,7,8 tetrachlorodibenzo-p-dioxin. The combined PCB toxicity of these compounds is expressed as PCB TEQ and can be added to the dioxin/furan TEQ to provide a total TEQ estimate for each plot.

In addition, a statistical background subtraction calculation on the congener-specific PCB results was performed in the past (1997 – 1999) to eliminate bias originating from background and laboratory sources. However, beginning in 2000, Alberta Environment requested that this calculation not be used. Consequently, all congener PCB data have since been based on the raw, unadjusted results. Efforts were also made during laboratory analysis to ensure that the

TEQ is not unduly elevated by the presence of non-toxic PCB congeners that may co-elute with toxic ones. This is particularly important for PCB 126, which has the highest TEF and therefore, typically has the largest impact on the TEQ values. An additional step can be undertaken by the laboratory, where warranted, in which the non-toxic PCB congeners are removed from the sample extract prior to re-analysis. This reduces the potential impact from congeners at higher levels of chlorination that may co-elute with PCB 126, and occasionally PCB 169. The need for this additional clean-up step for PCB TEQ is recommended by the laboratory following their review of the results.

For dioxins and furans, the analysis is conducted using HRMS. The results are converted to a 2,3,7,8 tetrachlorodibenzo-*p*-dioxin TEQ using TEFs that were developed for dioxin and furan congeners. In 2005, the WHO adopted new TEFs for assessments of potential toxicity on mammals. Historically, dioxin/furan TEQs were calculated using the original NATO I-TEFs that were adopted by Canada in 1990 (NATO 1988). A decision was made during the 2008 SHTC annual technical review meeting to update the dioxin/furan assessment by employing the most recent and scientifically defensible TEFs. It was recognized that this may create some issues regarding monitoring of historical trends based on overall dioxin/furan TEQ values.

To address these issues, the following data interpretation approach was adopted in 2008:

- Congener PCB and dioxin/furan TEQs were calculated using historical TEFs as well as the new WHO (2005) TEFs;
- Differences in TEQ resulting from application of the updated TEFs were discussed;
- Potential trends in congener PCB, dioxin and furan TEQ tissue levels were evaluated using historical TEFs; and
- A new benchmark for future monitoring was established in 2008 based on the application of the new WHO 2005 TEFs.

Therefore, from the 2009 monitoring year and onward, the new TEFs (WHO 2005) were used for calculating PCB and dioxin/furan TEQs.

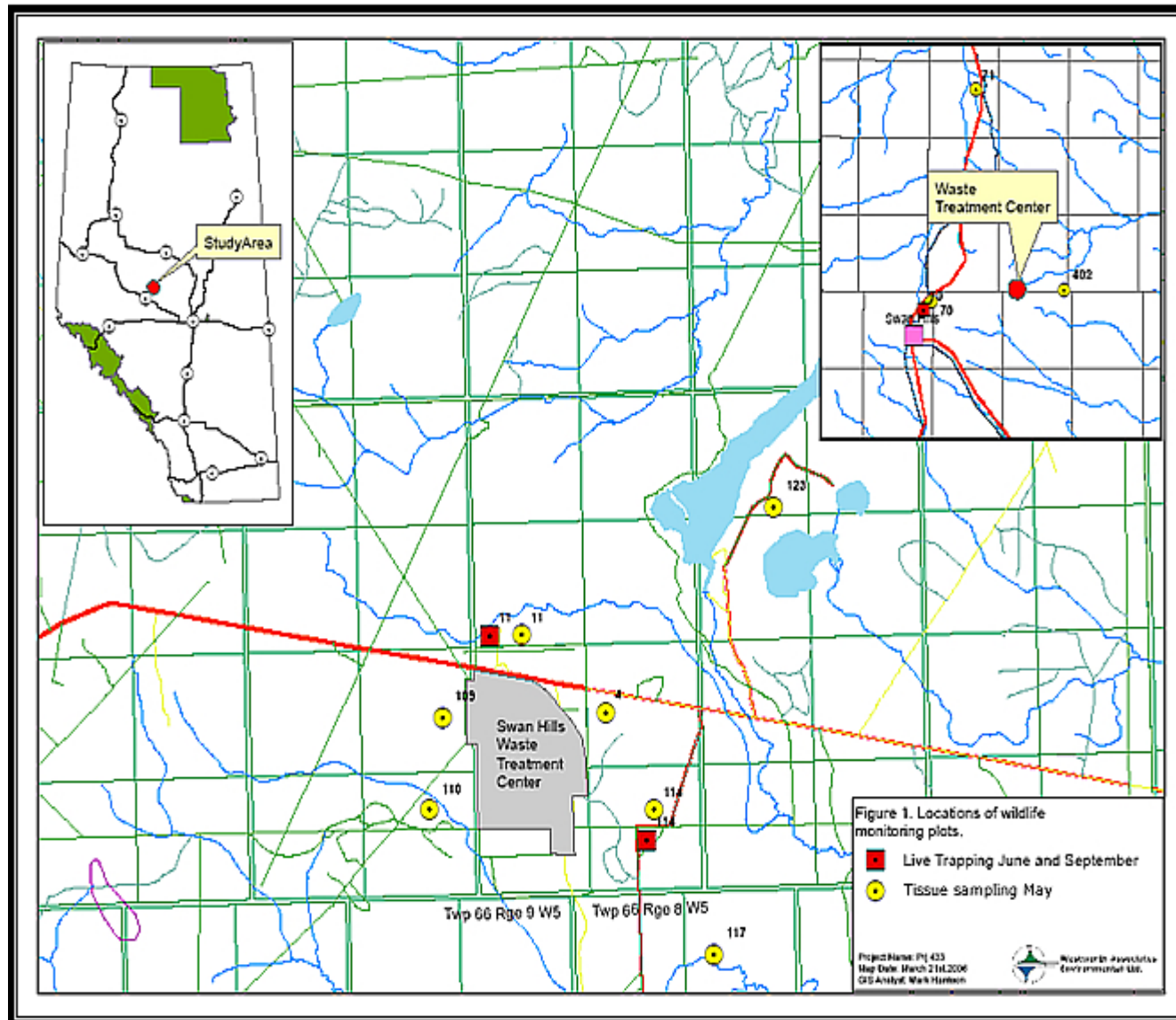


**Figure 2-1.** Location of plots sampled during the 2024 expanded wildlife monitoring program in the vicinity of the SHTC.

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## 2.4 Quality Assurance/Quality Control

To ensure quality control in the wildlife monitoring program, the following field procedures were followed:

- The effect of tissue collection on red-backed vole demography was reduced by collecting voles for tissue analyses near, but not on the population monitoring plots.
- Animal contact during tissue collection was minimized by handling voles only when they were first captured. Collected animals were only handled by personnel wearing disposable surgical gloves, which were discarded after each plot was checked.
- Voles collected for tissue analyses were immediately placed in clear glass jars, sealed, and cooled. These jars were labelled in the field to minimize the likelihood of samples being allocated to wrong plots. The sample jars were transported to a freezer, usually within 3 h of capture, and frozen for transport to the laboratory.
- When possible, duplicate samples of voles would be submitted if sufficient animals (i.e., >6 voles) were available from a single plot. However, this would only occur during relatively high population years and would avoid plots where information on vole demography is collected (plots 11, 114, and 70). During years when duplicate samples were not available, a laboratory duplicate, and a method blank were prepared and analyzed along with the samples. The duplicate provides information regarding the precision of the testing, which is affected by sample homogeneity, as well as the analytical reproducibility. The method blank provides information regarding potential bias due to laboratory background. Since PCBs are ubiquitous in the environment, when analyzing at ppt levels, some background PCBs will be detected. The reference method USEPA 1668C provides guidance on acceptable levels. In addition, any potentially elevated sample data are identified in the Certificate of Analysis report. A duplicate sample would provide a better estimate of variability from a single site than having the lab split a homogenized sample.
- Specimens were stored in frozen condition until they were submitted to the ALS Global for tissue analysis. The submission was accompanied by the appropriate chain of custody forms.

ALS Global was selected for the SHTC environmental monitoring program because of their expertise and long-term experience in the analysis of organic chemicals. ALS Global is accredited with the Standards Council of Canada, American Industrial Hygiene Association, and Agriculture Canada. All aspects of organic analyses were conducted according to standard methods of the United States Environmental Protection Agency and American Society for Testing and Materials. Quality control was ensured by using surrogates, which involves spiking some of the tissue to be analyzed with a known compound and confirming the level of extraction.

## 2.5 Wildlife Research Permit and Collection License

As in previous monitoring years, a wildlife research permit and collection license (No. 24-312) was obtained from Alberta Environment and Protected Areas to conduct the 2024 SHTC expanded wildlife monitoring program (Appendix 2). The research permit and collection

license are required under Alberta's *Wildlife Act* and authorizes the holder to possess and collect wildlife for research or education purposes (GoA 2023). In the case of the SHTC wildlife monitoring program, Alberta Wildlife Animal Care Committee Class Protocol #007 was followed (GoA 2005). All field data collected under the wildlife research permit and collection license was entered into the appropriate loadforms and submitted to the Fish and Wildlife Management Information System maintained by Alberta Environment and Protected Areas (Fish and Wildlife Stewardship Branch) along with the appropriate project completion forms.

## 2.6 Data Analysis

Live-trapping data collected during 2024 were analyzed using methods similar to those in past monitoring years in the SHTC study area (e.g., Penner 1994, Wildland Management Consultants Ltd. 2014). Red-backed vole abundance was estimated by 2 methods: capture rate (no. of captures/100 trap nights) and the minimum method. The capture rate, which was corrected for traps that had been triggered/robbed or had captured non-target animals (Nelson and Clark 1973), is primarily a measure of trapping efficiency and provides only a crude estimate of abundance. To determine the number of trap nights at each plot, the total number of trap nights for June and September 2024 (960 for each session) was adjusted by assuming that traps that had been triggered/robbed or were otherwise inoperable were unavailable to capture voles for the interval between trap checks, resulting in corrected trap night totals of 920 and 874 for June and September, respectively. In comparison, the minimum method, is simply the minimum number of animals known to be alive during each trapping session (Fuller 1969) and describes abundance in terms of density (no./ha). Minimum population estimates are directly comparable to the estimation methods used prior to 1994 (Penner 1994).

Vole survival was calculated as the mean 14-day survival rate between trapping sessions, using the formula:

$$\text{Survival} = e^{[\ln N(t+1) - \ln N(t)] \times 14/dt}$$

where  $N(t)$  is the number of animals known to be alive during period  $t$ ,  $N(t+1)$  is the number captured during period  $t$  that are still alive during the previous trapping session, and  $dt$  is the interval between the 2 trapping sessions. Use of the 14-day survival rate allows a direct comparison of survival among different time intervals.

All chemical concentrations and detection limits were obtained from the Certificate of Analysis report prepared by ALS Global. In the case of average chemical concentration calculations, one-half the detection limit was used for any non-detections. In addition, the results of the tissue analysis were used to determine the effects of distance and direction from the SHTC on chemical concentrations in vole tissues. The effect of distance and direction of each plot from the SHTC on PCB, dioxin and furan, and total TEQ concentrations in red-backed vole

tissues was determined using multiple regression analysis. For the purposes of this analysis, all monitoring plots south or east of the SHTC were considered downwind, whereas plots located north or west of the SHTC were considered upwind. Prior to analysis, data were normalized using a  $\log_{10}$  transformation. The equation used in the analysis was (Kleinbaum and Kupper 1978):

$$Y = B_0 + B_1(\text{Distance}) + B_2(\text{Direction}) + B_3(\text{Direction} \times \text{Distance})$$

where Y is the concentration of PCB, dioxins/furans, and total TEQ in red-backed vole tissues.

In this type of regression, “Direction” is a qualitative explanatory variable (i.e., a factor), with categories upwind and downwind. The dummy variable is a regressor, representing the factor “Direction”. In the resultant analysis, “Direction” indicates that the intercept of the regression differs between the upwind and downwind categories, whereas significance in the interaction term (Direction x Distance) indicates a difference in slope between the 2 categories (upwind and downwind). Thus, if the interaction term is significant, the equation is partitioned into 2 linear regression equations, 1 for the upwind and 1 for the downwind sector. However, if the dummy variable is significant while the interaction is not, the equation is treated as an analysis of covariance.

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# 3

## 3.0 RESULTS

### 3.1 Live-trapping Effort and Success

Only 9 red-backed voles were captured 16 times in 925 trap nights during the June 2024 live-trapping program (Table 3-1). Shrews (*Sorex spp.*) and deer mice (*Peromyscus maniculatus*) were also captured (Table 3-1) in June accounting for 50.0% of the total number of small mammal captures. Small animal captures were higher in September where 37 red-backed voles were captured 83 times in 874 trap nights (Table 3-1). Other small mammals captured in September (37.1% of the total number of captures) also included the shrew and deer mouse (Table 3-1).

**Table 3-1.** Summary of small mammal captures during the 2024 expanded wildlife monitoring program in the SHTC study area.

| Species           | June            |                |             | September       |                |             | Totals          |                |             |
|-------------------|-----------------|----------------|-------------|-----------------|----------------|-------------|-----------------|----------------|-------------|
|                   | No. Individuals | Total Captures | % Mortality | No. Individuals | Total Captures | % Mortality | No. Individuals | Total Captures | % Mortality |
| Red-backed Vole   | 9               | 16             | 18.8        | 37              | 83             | 10.8        | 46              | 99             | 12.1        |
| Shrew <i>spp.</i> | 15              | 15             | 66.7        | 39              | 47             | 64.1        | 54              | 54             | 64.8        |
| Deer Mouse        | 1               | 1              | 0.0         | 2               | 2              | 50.0        | 3               | 3              | 33.3        |

Trapping mortalities of red-backed voles in both June and September 2024 were 18.8% and 10.8%, respectively (Table 3-1). The average trapping mortality rate for red-backed voles in 2024 was 12.1%, slightly higher than the range of 4 to 12% annual mortality rates reported since 1992 except for 2010 when a high of 15.7% was recorded.

Overall, red-backed voles that died during the June and September 2024 live-trapping sessions weighed slightly less (mean = 15.3 g) on average than those that survived (mean = 16.2 g). The average weight of voles that died in 2024 similar to most previous monitoring years where voles with lower body weights tended to be more susceptible to trapping mortality than heavier animals. However, sample sizes for vole mortalities were generally smaller than for those animals that were alive.

The average mortality rate for non-target species in 2024 was 63%, lower than that recorded in 2023 (78%), but within the range of what was recorded between 2013 and 2021 (range =

28.6% - 69.9%). During 2024, the mortality rates of non-target small mammals was recorded for shrews (64%,  $n = 35$ ) and deer mice (33%,  $n = 1$ ) (Table 3-1). In previous monitoring years, high mortality rates for non-target species were usually associated with shrews, typically ranging from 65% to 100%, which was similar to that recorded in 2024.

## 3.2 Demographic Characteristics of Red-backed Vole Populations

### 3.2.1 Abundance

#### 3.2.1.1 Annually Monitored Plots

Minimum method estimates indicated that red-backed vole populations decreased at all 3 plots between June 2023 and June 2024 (Figure 3-1). The largest decrease occurred at plot 114 (22.2 to 0.7 voles/ha or -97%) followed by plots 11 (7.6 to 2.1 voles/ha or -74%) and 70 (11.1 to 3.5 voles/ha or -69%) (Table 3-2, Figure 3-1). The average population density for the 3 plots decreased 85% from 13.7 voles/ha in June 2023 to 2.1 voles/ha in June 2024 (Table 3-2).

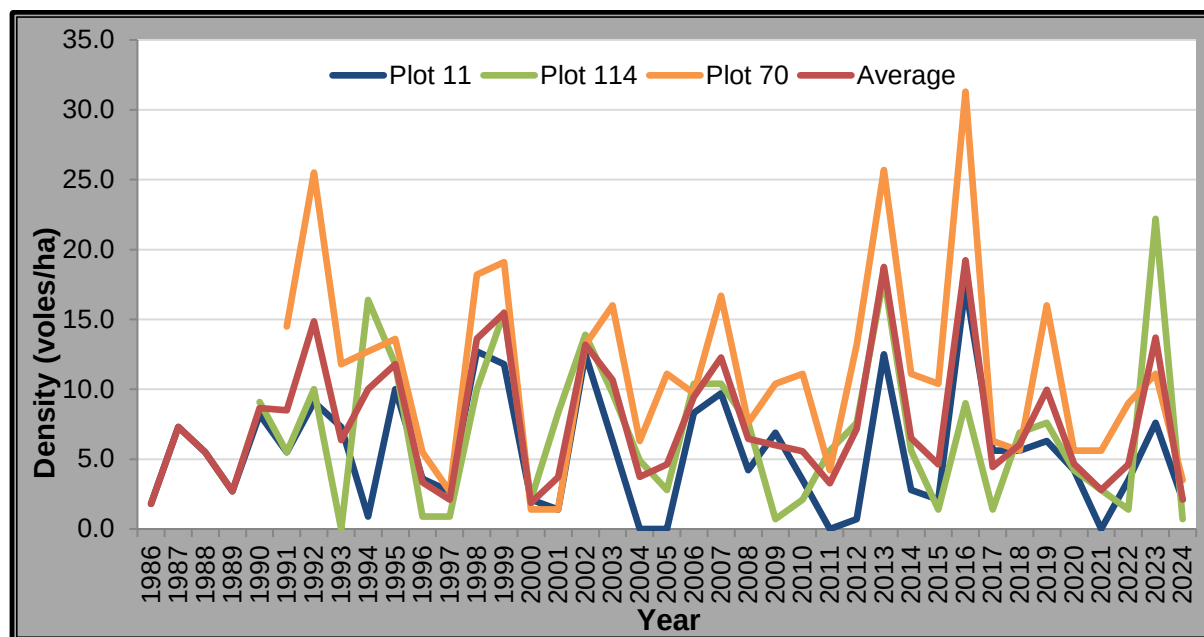


**Figure 3-1.** Red-backed vole densities for annually monitored plots in the SHTC study area, June 1986 - 2024.

The relative abundance of red-backed voles among plots as indicated by the minimum method and catch/unit effort were not significantly different ( $P = 0.07$ , two-sample  $t$ -test) from each other in June 2024 (Table 3-2). While both methods indicated similar trends in vole populations (i.e., decreases at all 3 plots), catch/unit effort values were lower by approximately 50% at each of the 3 plots than what was calculated for the minimum method (Table 3-2).

**Table 3-2.** June and September red-backed vole population estimates for the 2024 annual monitoring program in the SHTC study area.

| Plot            | Distance from the SHTC (km) | Direction from the SHTC | June                    |                | September  |                |
|-----------------|-----------------------------|-------------------------|-------------------------|----------------|------------|----------------|
|                 |                             |                         | No./100 TN <sup>1</sup> | Minimum No./ha | No./100 TN | Minimum No./ha |
| 11              | 0.1                         | N                       | 1.0                     | 2.1            | 5.0        | 10.4           |
| 114             | 0.7                         | E                       | 0.3                     | 0.7            | 3.2        | 6.3            |
| 70              | 11.5                        | SW                      | 1.7                     | 3.5            | 4.4        | 9.0            |
| <b>Averages</b> |                             |                         | <b>1.0</b>              | <b>2.1</b>     | <b>4.2</b> | <b>8.6</b>     |

<sup>1</sup> TN – Trap nights for capture rate.

In September, minimum method estimates indicated that vole populations in the SHTC area also decreased at the 3 live-trapping plots between 2022 and 2023 (Table 3-2, Figure 3-2). In contrast to previous monitoring years where vole densities at plot 70 are typically higher, voles were more abundant at plot 11, followed by plots 70 and 114 (Table 3-2). Overall, the average density for these 3 plots decreased (-38%) from 13.9 voles/ha in September 2023 to 8.6 voles/ha in September 2024. Despite the decreases, vole densities at the 3 plots were within the ranges previously recorded in the SHTC area (Figure 3-2).

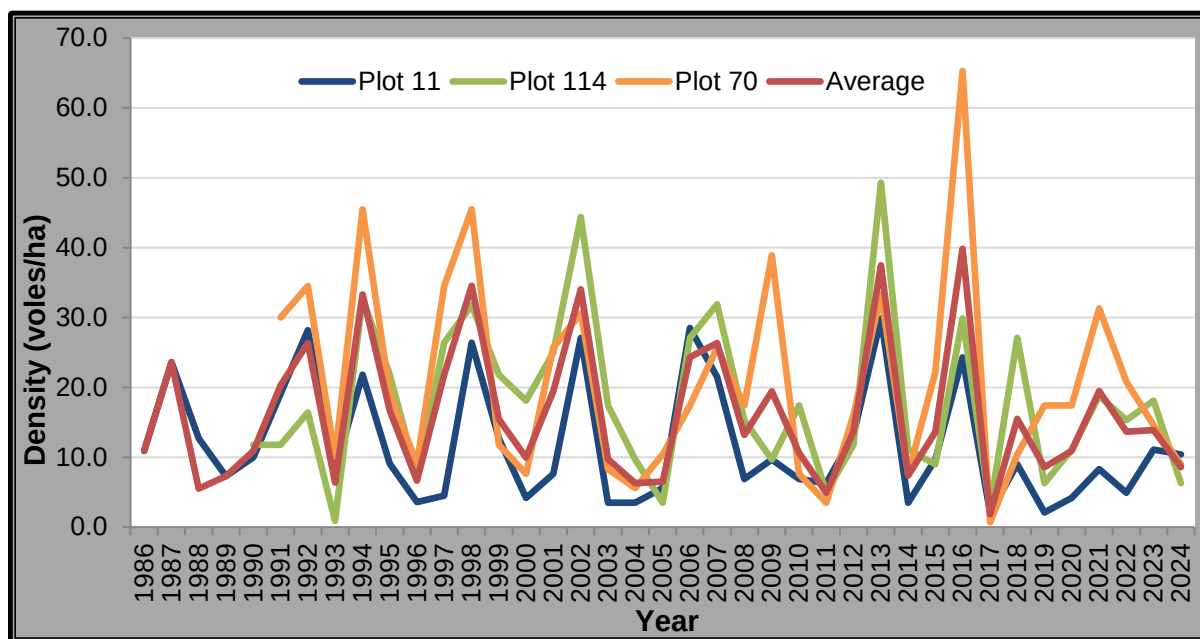


**Figure 3-2.** Red-backed vole densities for annually monitored plots in the SHTC study area, September 1986 - 2024.

As in June, the abundance of voles in September 2024 also varied by calculation method. Catch/unit effort was consistently lower by about 50% than that indicated by the minimum method across the 3 annually monitored plots and was statistically different based on a two-sample t-test ( $P = 0.025$ ) (Table 3-2). Plot 11 had the highest density and catch/unit effort

while plots 70 and 114 were lower. The average abundance of voles as indicated by the minimum method (8.6 voles/ha) was higher than that indicated by catch/unit effort (4.2/100 trap nights) (Table 3-2) in 2024.

Based on population trends recorded since 1986 at the 3 annually monitored plots, vole populations in the SHTC study area have fluctuated widely with peak numbers occurring about every 3 - 5 years (Figures 3-1 and 3-2). However, population trends have occasionally differed among plots, particularly in June. For instance, between June 1993 and June 1994, and again between June 1998 and June 1999, vole populations at plot 11 declined while populations increased at plots 70 and 114 (Figure 3-1). This also occurred at plot 114 in 2009 and 2010 and again between 2021 and 2022. Furthermore, vole densities have periodically been very low, particularly at plot 11 in 2004, 2005, 2011, and again in 2021 when no voles were live-trapped in June (Figure 3-1). This only occurred once at plot 114 (1993) but has not occurred at plot 70 since monitoring began.

In comparison, September vole populations at the 3 plots have tended to be more synchronous over the years (Figure 3-2). However, like June, some differences in vole densities among the plots were apparent over time. For instance, plot 70 had the highest densities during population peaks until 1998. In contrast, peaks in 2002, 2007 were highest at plot 114. In 2009, this was most apparent with the large increase in vole density at plot 70 while densities at the remaining 2 plots decreased (plot 114) or increased slightly (plot 11). Recently, vole populations have been more synchronous in both June and September between 2011 and 2018. In 2014, vole populations at plots 11, 70, and 114 all exhibited declines from population highs observed in 2013 in June and September but began increasing in 2015 to another peak in 2016 and the subsequent decline to a population low in 2017. Similarly, in September 2019, vole populations at plots 11 and 114 declined while the voles at plot 70 increased. In September 2021, vole populations at all 3 plots increased followed by a decline in 2022 (Figure 3-1). In comparison, vole populations increased at all 3 plots in June 2023 and at plots 11 and 114 in September. Vole densities at plot 70 have continued to decline following a peak density in 2021 (Figure 3-1). Unlike June, voles have been captured at all 3 plots in September during every monitoring year with exception of plot 114 in 1993 and plot 70 in 2017 when densities approached 0 (e.g., 0.9 and 0.7 voles/ha, respectively) (Figure 3-2).

Although the reasons for these inconsistencies are unclear, they likely reflect differences in habitat structure among the 3 plots and therefore, their ability to support voles under variable weather conditions and different levels of predation and food supply. Populations have typically been higher at plot 70 (farthest from the SHTC) in both June and September than at plots 11 and 114 since monitoring began. June peak vole populations at plot 70 in September



varied from highs of between 10.7 to 31.3/ha and lows of 1.4 to 6.3/ha. In comparison, peak populations in September at plot 70 have ranged from 30.0 to 65.3 voles/ha while previously, low populations have ranged from 5.6 to 10.0 voles/ha. From a habitat standpoint, plot 70 is the most structurally diverse (i.e., well-developed ground, shrub, and tree cover) of the 3 monitoring plots. However, the effects of forest fires that occurred during the summer of 2023 on vole demography is unclear but may have affected vole densities, particularly at plot 70.

In contrast, vole densities have ranged from a high of 20 to 49.3 voles/ha to a low of 0.0 to 10.0 voles/ha at plots 11 and 114, both of which are characterized primarily by black spruce with relatively open shrub and ground layers dominated by Labrador tea and feather moss. It is interesting to note however, that the vole density at plot 11 was the same as the density at plot 70 in June 2018 and that vole densities at all 3 plots were similar in 2020. Historically, vole densities at plot 11 have typically been lower than the other 2 plots while densities at plot 70 have been higher. However, the highest vole densities in June 2024 occurred at plot 70 followed by plot 11 while plot 114 had the lowest density (Table 3-2, Figure 3-2). In comparison, the highest September vole density was recorded at plot 11, followed by plots 70 and 11, unlike September densities in most previous monitoring years (Table 3-2, Figure 3-2).

#### 3.2.1.2 *Expanded Monitoring Plots*

Because of changes made to the scope of the 2024 expanded wildlife monitoring program, both the June and September abundance indices for red-backed voles were the same as those reported for the 3 2024 annually monitored plots (see Table 3-3 and Table 3-4). Compared to previous expanded monitoring years (10 plots), the average June vole density for the 2024 expanded monitoring program (3 plots) was the lowest recorded since the initiation of the expanded monitoring program in 1999 (Table 3-3). Plot 70 had the highest vole density (3.5 voles/ha) in 2024, followed by plot 11 (2.1 voles/ha), and plot 114 (0.7 voles/ha) (Table 3-3). There was a trend for vole densities to be greater closer to the SHTC in June 2019 ( $r_p = -0.202$ ), but the trend was not significant ( $P = 0.51$ ). During previous expanded monitoring years, the highest June densities occurred at plots 70 (19.1 voles/ha) in 1999, 71 (17.3 voles/ha) in 2004 and plot 71 (17.3 voles/ha) in 2009. In comparison, the density of voles at plot 11 in 2024 (2.1 voles/ha) was the second lowest recorded compared to previous expanded monitoring years, while the June 2024 vole density (0.7 voles/ha) at plot 114 was the lowest recorded, the same as that recorded in 2009 (0.7 voles/ha) (Table 3-3). The vole density at plot 70 (3.5 voles/ha) during the June 2024 expanded monitoring year was the lowest recorded compared to previous expanded monitoring years (Table 3.3). Overall, average vole densities were generally higher (range = 27 – 55%) at the previous 10 expanded monitoring plots than those recorded at the 3 expanded monitoring plots from 2004 to 2019.

The only exception occurred in June 1999 when the average vole density at the 3 annually monitored plots was higher than the average vole density at the 10 expanded monitoring plots (Table 3-3).

**Table 3-3.** Minimum densities (no./ha) of red-backed voles captured during the expanded monitoring programs conducted in the SHTC study area, June 1986 – 2024.

| Plot                                          | Distance from SHTC (km) | Direction from SHTC | Baseline Phase (1986-87) | Operations Phase  |             |            |             |             |             |                        |
|-----------------------------------------------|-------------------------|---------------------|--------------------------|-------------------|-------------|------------|-------------|-------------|-------------|------------------------|
|                                               |                         |                     |                          | 1988-1998         | 1999        | 2004       | 2009        | 2014        | 2019        | 2024                   |
| <b>11</b>                                     | <b>0.1</b>              | <b>N</b>            | <b>1.8 - 7.3</b>         | <b>0.9 - 12.7</b> | <b>11.8</b> | <b>0.0</b> | <b>6.9</b>  | <b>2.8</b>  | <b>6.3</b>  | <b>2.1</b>             |
| 109                                           | 0.2                     | E                   | -                        | 0.9 - 16.4        | 0.9         | 6.4        | 3.6         | 8.2         | 20.0        | -                      |
| 103                                           | 0.2                     | W                   | -                        | 0.9 - 7.3         | 12.7        | 3.6        | 5.5         | 3.6         | 16.4        | -                      |
| 4                                             | 0.3                     | E                   | 0.0 - 12.7               | 1.0 - 14.5        | 2.7         | 3.6        | 6.4         | 9.1         | 23.6        | -                      |
| 1                                             | 0.4                     | NE                  | -                        | 6.4 - 23.6        | 8.2         | 4.5        | 14.5        | 15.5        | 11.8        | -                      |
| 27                                            | 0.5                     | S                   | 2.7 - 6.4                | 0.9 - 13.6        | 10.0        | 6.4        | 7.3         | 11.8        | 19.1        | -                      |
| 8                                             | 0.6                     | E                   | -                        | 4.5 - 22.7        | 11.8        | 10.0       | 9.1         | 4.5         | 12.7        | -                      |
| <b>114</b>                                    | <b>0.7</b>              | <b>E</b>            | <b>-</b>                 | <b>0.0 - 16.4</b> | <b>15.5</b> | <b>4.9</b> | <b>0.7</b>  | <b>5.6</b>  | <b>7.6</b>  | <b>0.7</b>             |
| 9                                             | 1.4                     | ENE                 | -                        | 5.5 - 18.2        | 12.7        | 2.7        | 3.6         | 4.5         | 17.3        | -                      |
| 26                                            | 2.6                     | WNW                 | -                        | 0.0 - 10.9        | 8.2         | 8.2        | 0.9         | 3.6         | 9.1         | -                      |
| 30                                            | 3.6                     | NW                  | 4.5 - 19.1               | 0.0 - 22.7        | 14.6        | 1.8        | 10.9        | 12.7        | 15.5        | -                      |
| <b>70</b>                                     | <b>11.5</b>             | <b>SW</b>           | <b>-</b>                 | <b>2.7 - 25.5</b> | <b>19.1</b> | <b>6.3</b> | <b>10.4</b> | <b>11.1</b> | <b>16.0</b> | <b>3.5</b>             |
| 71                                            | 23.0                    | NNW                 | -                        | 0.9 - 20.0        | 3.6         | 17.3       | 17.3        | 11.8        | 10.0        | -                      |
| <b>Annually Monitored Plot Averages (3)</b>   |                         |                     | <b>4.6</b>               | <b>8.5</b>        | <b>15.5</b> | <b>3.7</b> | <b>6.0</b>  | <b>6.5</b>  | <b>10.0</b> | <b>2.1</b>             |
| <b>Expanded Monitoring Plot Averages (10)</b> |                         |                     | <b>7.6</b>               | <b>8.0</b>        | <b>8.5</b>  | <b>6.5</b> | <b>7.9</b>  | <b>8.5</b>  | <b>15.6</b> | <b>2.1<sup>2</sup></b> |

<sup>1</sup> Bold italics indicates plots that are monitored annually. <sup>2</sup> n = 3 plots.

In contrast to June, the average September vole density in 2024 for the expanded monitoring program (all 3 plots) was the same as the overall average (8.6 voles/ha) in the previous 5 expanded monitoring years recorded in the vicinity of the SHTC (Table 3-4). The highest vole densities were recorded plot 11 (10.4 voles/ha) during the 2024 expanded monitoring program, followed by plots 70 (9.0 voles/ha) and 114 (6.3 voles/ha) (Table 3-4). During previous expanded monitoring years, the highest September densities occurred at plots 70 (38.9 voles/ha) in 2009, 114 (21.8 voles/ha) in 1999, and 11 (12.7 voles/ha) in 1999 (Table 3-4). Overall, average September vole densities during 4 (1999, 2004, 2014 and 2019) of the previous 5 expanded monitoring years were higher (range = 6 – 99%) than those recorded at the 3 expanded monitoring plots except for the 2009 expanded monitoring year when densities were 22% lower (Table 3-4).

**Table 3-4.** Minimum densities (no./ha) of red-backed voles captured during the expanding wildlife monitoring program in the SHTC study area, September 1988 – 2024.

| Plot                                          | Distance from SHTC (km) | Direction from SHTC | Baseline Phase (1986-87) | Operations Phase  |             |             |             |             |             |                        |
|-----------------------------------------------|-------------------------|---------------------|--------------------------|-------------------|-------------|-------------|-------------|-------------|-------------|------------------------|
|                                               |                         |                     |                          | 1988-1998         | 1999        | 2004        | 2009        | 2014        | 2019        | 2024                   |
| <b>11</b>                                     | <b>0.1</b>              | <b>N</b>            | <b>10.9 - 23.8</b>       | <b>3.6 - 28.2</b> | <b>12.7</b> | <b>3.5</b>  | <b>9.7</b>  | <b>3.5</b>  | <b>2.1</b>  | <b>10.4</b>            |
| 109                                           | 0.2                     | W                   | -                        | 3.6 - 30.9        | 16.4        | 10.9        | 10.9        | 19.1        | 20.0        | -                      |
| 103                                           | 0.2                     | E                   | -                        | 2.7 - 23.7        | 16.4        | 5.5         | 8.2         | 4.5         | 13.6        | -                      |
| 4                                             | 0.3                     | E                   | 2.7 - 18.2               | 2.7 - 28.2        | 1.8         | 7.3         | 10.9        | 9.1         | 18.2        | -                      |
| 1                                             | 0.4                     | NE                  | -                        | 12.7 - 40.0       | 18.2        | 17.3        | 26.4        | 8.2         | 22.7        | -                      |
| 27                                            | 0.5                     | S                   | 1.8 - 12.7               | 0.0 - 21.8        | 7.3         | 8.2         | 18.2        | 16.4        | 10.0        | -                      |
| 8                                             | 0.6                     | E                   | -                        | 3.6 - 37.3        | 20.9        | 7.3         | 9.1         | 9.1         | 12.7        | -                      |
| <b>114</b>                                    | <b>0.7</b>              | <b>E</b>            | <b>-</b>                 | <b>0.9 - 32.7</b> | <b>21.8</b> | <b>9.7</b>  | <b>9.7</b>  | <b>11.1</b> | <b>6.3</b>  | <b>6.3</b>             |
| 9                                             | 1.4                     | ENE                 | -                        | 16.4 - 50.0       | 46.4        | 3.6         | 7.3         | 8.2         | 20.9        | -                      |
| 26                                            | 2.6                     | WNW                 | -                        | 0.9 - 32.7        | 2.7         | 4.5         | 16.4        | 4.5         | -           | -                      |
| 30                                            | 3.6                     | NW                  | 30.9 - 58.2              | 4.5 - 40.9        | 13.6        | 2.7         | 18.2        | 10.0        | 8.2         | -                      |
| <b>70</b>                                     | <b>11.5</b>             | <b>SW</b>           | <b>-</b>                 | <b>9.1 - 45.5</b> | <b>11.8</b> | <b>5.6</b>  | <b>38.9</b> | <b>7.6</b>  | <b>17.4</b> | <b>9.0</b>             |
| 71                                            | 23.0                    | NNW                 | -                        | 7.3 - 45.5        | 20.9        | 41.8        | 29.1        | 30.0        | 7.3         | -                      |
| <b>Annually Monitored Plot Averages (3)</b>   |                         |                     | <b>17.3</b>              | <b>19.0</b>       | <b>15.5</b> | <b>3.7</b>  | <b>19.4</b> | <b>7.4</b>  | <b>8.6</b>  | <b>8.6</b>             |
| <b>Expanded Monitoring Plot Averages (10)</b> |                         |                     | <b>19.0</b>              | <b>17.9</b>       | <b>16.5</b> | <b>10.9</b> | <b>15.5</b> | <b>11.9</b> | <b>14.8</b> | <b>8.6<sup>3</sup></b> |

<sup>1</sup> Bold italics indicates plots that are monitored annually. <sup>2</sup> Because of bear safety concerns, live-trapping was stopped after 1 day. No voles were captured during the 1 day of live trapping. <sup>3</sup> n = 3 plots.

### 3.2.2 Sex Ratios

#### 3.2.2.1 Annually Monitored Plots

Overall, the sex ratio for voles captured in June 2024 favoured males (3.5 males/female) and unlike most previous monitoring years was the second highest recorded since 1986 (Table 3-5). The largely male dominated population was a result of more males captured at plots 70 (3.5 males/female) and 11 (3 males and 0 females). In comparison, the average sex ratio for voles in September 2024 favored females (0.5 males/female) reflecting the predominance of females at plots 70 (0.3 males/female) and 114 (0.5 males/female) Table 3-5).

**Table 3-5.** Sex ratios (no. of males/female) of red-backed voles recorded on annually monitored plots in the SHTC study area, June and September 1986 - 2024.

| Year | June            |                |         |         | September |          |         |          |
|------|-----------------|----------------|---------|---------|-----------|----------|---------|----------|
|      | Plot 11         | Plot 114       | Plot 70 | Average | Plot 11   | Plot 114 | Plot 70 | Averages |
| 1986 | 2M <sup>1</sup> | - <sup>2</sup> | -       | 2M      | 0.2       | -        | -       | 0.2      |
| 1987 | 3.0             | -              | -       | 3.0     | 0.5       | -        | -       | 0.5      |
| 1988 | 1.0             | -              | -       | 1.0     | 1.8       | -        | -       | 1.8      |
| 1989 | 0.5             | -              | -       | 0.5     | 1.7       | -        | -       | 1.7      |

| Year | June    |                  |         |            | September |          |         |            |
|------|---------|------------------|---------|------------|-----------|----------|---------|------------|
|      | Plot 11 | Plot 114         | Plot 70 | Average    | Plot 11   | Plot 114 | Plot 70 | Averages   |
| 1990 | 2.0     | 2.0              | -       | <b>2.0</b> | 1.2       | 3.0      | -       | <b>1.9</b> |
| 1991 | 0.5     | 5.0              | 2.2     | <b>1.8</b> | 1.1       | 1.6      | 1.7     | <b>1.5</b> |
| 1992 | 4.0     | 1.8              | 1.2     | <b>1.6</b> | 0.9       | 1.6      | 1.0     | <b>1.1</b> |
| 1993 | 7.0     | n/a <sup>3</sup> | 0.9     | <b>1.7</b> | 0.5       | 1F       | 0.8     | <b>0.6</b> |
| 1994 | 1M      | 1.3              | 1.4     | <b>1.4</b> | 1.2       | 1.0      | 0.9     | <b>0.6</b> |
| 1995 | 2.0     | 1.2              | 1.8     | <b>1.6</b> | 0.2       | 0.4      | 0.9     | <b>0.5</b> |
| 1996 | 1.0     | 1M               | 1.0     | <b>1.2</b> | 1.0       | 3.0      | 2.0     | <b>0.8</b> |
| 1997 | 3M      | 1M               | 2.0     | <b>1.3</b> | 1.5       | 1.5      | 0.9     | <b>1.2</b> |
| 1998 | 1.8     | 0.8              | 1.7     | <b>1.4</b> | 1.0       | 0.5      | 0.8     | <b>0.7</b> |
| 1999 | 3.3     | 0.7              | 1.3     | <b>1.2</b> | 1.8       | 0.7      | 3.3     | <b>1.2</b> |
| 2000 | 2.0     | 2.0              | 2F      | <b>1.0</b> | 6M        | 0.9      | 0.6     | <b>0.8</b> |
| 2001 | 2M      | 1.2              | 2M      | <b>2.0</b> | 0.4       | 0.3      | 0.2     | <b>0.3</b> |
| 2002 | 1.6     | 1.2              | 1.4     | <b>1.4</b> | 0.8       | 2.5      | 1.3     | <b>1.4</b> |
| 2003 | 0.5     | 1.8              | 1.3     | <b>1.2</b> | 4M        | 1.6      | 2.0     | <b>2.0</b> |
| 2004 | n/a     | 1.3              | 1.3     | <b>1.3</b> | 4.0       | 0.4      | 1.0     | <b>1.8</b> |
| 2005 | n/a     | 1.0              | 1.7     | <b>1.5</b> | 7.0       | 0.3      | 2.3     | <b>2.1</b> |
| 2006 | 1.8     | 1.1              | 3.7     | <b>1.9</b> | 0.6       | 1.1      | 0.6     | <b>0.8</b> |
| 2007 | 1.1     | 0.9              | 2.2     | <b>1.5</b> | 0.8       | 0.5      | 1       | <b>0.7</b> |
| 2008 | 5.0     | 0.8              | 1.8     | <b>1.5</b> | 0.1       | 0.8      | 0.9     | <b>0.7</b> |
| 2009 | 1.0     | 1F               | 2.0     | <b>1.5</b> | 1.0       | 0.3      | 2.1     | <b>1.0</b> |
| 2010 | 1.0     | 3M               | 1.5     | <b>1.8</b> | 1.0       | 0.3      | 2.1     | <b>1.0</b> |
| 2011 | n/a     | 3.0              | 5.0     | <b>3.7</b> | 0.5       | 0.5      | 0.7     | <b>0.5</b> |
| 2012 | 1F      | 2.7              | 2.8     | <b>2.4</b> | 0.8       | 1.0      | 1.2     | <b>1.0</b> |
| 2013 | 1.3     | 1.7              | 1.6     | <b>1.5</b> | 1.8       | 1.4      | 1.1     | <b>1.4</b> |
| 2014 | 0.3     | 1.7              | 2.2     | <b>1.4</b> | 4.0       | 1.0      | 0.8     | <b>1.9</b> |
| 2015 | 2.0     | 1.0              | 1.5     | <b>1.5</b> | 0.8       | 2.2      | 1.1     | <b>1.4</b> |
| 2016 | 1.3     | 5.5              | 1.0     | <b>1.3</b> | 0.8       | 0.9      | 1.1     | <b>1.0</b> |
| 2017 | 0.3     | 2F               | 0.5     | <b>0.4</b> | 3M        | 0.3      | 1F      | <b>1.0</b> |
| 2018 | 1.0     | 0.7              | 3.0     | <b>1.2</b> | 2.3       | 1.2      | 0.4     | <b>1.0</b> |
| 2019 | 1.3     | 4.5              | 2.3     | <b>2.3</b> | 3M        | 8.0      | 0.9     | <b>1.6</b> |
| 2020 | 1.0     | 0.5              | 7.0     | <b>1.5</b> | 5.0       | 3.0      | 2.1     | <b>2.6</b> |
| 2021 | n/a     | 1.0              | 3.0     | <b>2.0</b> | 1.0       | 0.7      | 0.6     | <b>0.6</b> |
| 2022 | 0.7     | 2M               | 0.9     | <b>1.0</b> | 2.5       | 1.2      | 0.4     | <b>0.8</b> |
| 2023 | 2.7     | 0.7              | 1.3     | <b>1.0</b> | 1.0       | 1.2      | 2.0     | <b>1.2</b> |
| 2024 | 3M      | 1F               | 4.0     | <b>3.5</b> | 0.9       | 0.5      | 0.3     | <b>0.5</b> |

<sup>1</sup> M, F- single sex captures are denoted as M (male) and F (female). <sup>2</sup> Plots not sampled. <sup>3</sup> n/a - no voles captured at this plot.

Previous monitoring indicates that sex ratios of red-backed voles in the SHTC area often differ between June and September (e.g., Penner 1994, Westworth Associates Environmental Ltd. 1999). Between 1986 and 2024, males are usually more prevalent on average, than females in the June population (1.6 males/female) across the 3 annually monitored plots, whereas in September, the dominant sex has differed among years although the average sex ratio for September approaches equilibrium (1.1 males/female).

### 3.2.2.2 Expanded Monitoring Program

Because of the changes in the scope of the 2024 expanded wildlife monitoring program, both the June and September sex ratios for red-backed voles were the same as those reported for the 3 2024 annually monitored plots (see Table 3-5). On average, more male than female red-backed voles (3 males, 0 females) were captured in June 2024 which is the highest recorded in the SHTC area on the 13 expanded monitoring plots (Table 3-6). Males dominated the sex ratio at plot 70 and plot 11 while females dominated at plot 114 in 2024 (Table 3-6). In all previous expanded monitoring years (i.e., 1999, 2004, 2009, 2014, and 2019), the red-backed vole sex ratio has been, on average, male-biased in June. Plots with approximately equal sex ratios tended to be closer to the SHTC than the plots located further away (Table 3-6).

**Table 3-6.** Sex ratios (no. of males/female) of red-backed voles recorded during the expanded monitoring programs in the SHTC study area, June 1986 - 2024.

| Plot                         | Baseline Phase<br>(1986-87) | Operational Phase                  |                   |                               |                   |                   |                   |                   |
|------------------------------|-----------------------------|------------------------------------|-------------------|-------------------------------|-------------------|-------------------|-------------------|-------------------|
|                              |                             | 1988-98                            | 1999              | 2004                          | 2009              | 2014              | 2019              | 2024              |
| <b><i>11<sup>1</sup></i></b> | <b><i>3.0 - 2M</i></b>      | <b><i>1.0 - 3M<sup>2</sup></i></b> | <b><i>3.3</i></b> | <b><i>n/a<sup>3</sup></i></b> | <b><i>1.0</i></b> | <b><i>0.3</i></b> | <b><i>1.3</i></b> | <b><i>3M</i></b>  |
| 109                          | -                           | 1.0 - 3M                           | 2.0               | 1.0                           | 1.0               | 3F                | 1.4               | -                 |
| 103                          | -                           | 1F - 3.5                           | 1M                | 1.3                           | 1.0               | 3.0               | 1.0               | -                 |
| 4                            | 1.3                         | 1F - 4.0                           | 0.5               | 3.0                           | 1.3               | 1.0               | 1.0               | -                 |
| 1                            | -                           | 1.0 - 2.8                          | 2.0               | 0.7                           | 1.3               | 0.7               | 1.6               | -                 |
| 27                           | 0.8 - 2.0                   | 1F - 6.0                           | 2.3               | 0.8                           | 3.0               | 0.4               | 1.1               | -                 |
| 8                            | -                           | 1.1 - 3.0                          | 1.2               | 2.7                           | 1.5               | 0.3               | 1.3               | -                 |
| <b><i>114</i></b>            | -                           | <b><i>0.8 - 1M</i></b>             | <b><i>0.7</i></b> | <b><i>1.3</i></b>             | <b><i>1F</i></b>  | <b><i>1.7</i></b> | <b><i>4.5</i></b> | <b><i>1F</i></b>  |
| 9                            | -                           | 0.5 - 2.0                          | -                 | 2.0                           | 4M                | 0.7               | 0.3               | -                 |
| 26                           | -                           | 2F - 3M                            | 1.7               | 0.5                           | 1M                | 0.3               | 1.0               | -                 |
| 30                           | 0.3 - 2.0                   | 1.1 - 4.0                          | 1.3               | 2M                            | 2.0               | 1.0               | 2.4               | -                 |
| <b><i>70</i></b>             | -                           | <b><i>0.9 - 2.2</i></b>            | <b><i>1.3</i></b> | <b><i>1.3</i></b>             | <b><i>2.0</i></b> | <b><i>2.2</i></b> | <b><i>2.3</i></b> | <b><i>3.5</i></b> |
| 71                           | -                           | 1.0 - 1M                           | 3.0               | 0.6                           | 0.6               | 1.6               | 1.2               | -                 |
| <b>Averages</b>              | <b>1.6</b>                  | <b>2.1</b>                         | <b>1.2</b>        | <b>1.3</b>                    | <b>1.5</b>        | <b>1.4</b>        | <b>2.3</b>        | <b>3.5</b>        |

<sup>1</sup> Bold italics indicates plots that are monitored annually. <sup>2</sup> M, F- single sex captures are denoted as M (male) and F (female).

<sup>3</sup> n/a- no voles were captured at this plot. <sup>4</sup> Plots not sampled.

The average sex ratio for voles in September 2024 was 0.5 males/female (Table 3-7). The sex ratio at plot 11 was the highest recorded in 2024 (0.9 males/female) than what was recorded at plots 114 and 70. Compared to the previous 5 expanded monitoring years, sex ratios favoured females although it approached equilibrium at plot 11 (Table 3-7). Unlike June 2024, September sex ratios tended to favor females as distance from the STHC increased (Table 3-7).

**Table 3-7.** Sex ratios (no. of males/female) of red-backed voles recorded during the expanded monitoring programs in the SHTC study area, September 1986 - 2024.

| Plot                  | Baseline Phase<br>(1986-87) | Operational Phase |            |            |            |            |                       |            |
|-----------------------|-----------------------------|-------------------|------------|------------|------------|------------|-----------------------|------------|
|                       |                             | 1988-98           | 1999       | 2004       | 2009       | 2014       | 2019                  | 2024       |
| <b>11<sup>1</sup></b> | <b>0.2 - 0.5</b>            | <b>0.7 - 1.9</b>  | <b>1.8</b> | <b>4.0</b> | <b>1.0</b> | <b>4.0</b> | <b>3M<sup>2</sup></b> | <b>0.9</b> |
| 109                   | - <sup>3</sup>              | 0.8 - 3.0         | 1.3        | 1.4        | 0.4        | 0.7        | 0.6                   | -          |
| 103                   | -                           | 0.5 - 4.0         | 0.8        | 1.0        | 1.7        | 0.6        | 0.7                   | -          |
| 4                     | 0.4 - 2.0                   | 0.6 - 4.3         | 1.0        | 1.0        | 1.8        | 3.5        | 2.3                   | -          |
| 1                     | -                           | 0.6 - 1.9         | 1.0        | 0.6        | 0.8        | 1.3        | 1.5                   | -          |
| 27                    | 1.0 - 1.0                   | 0.7 - 1M          | 3.0        | 1.3        | 1.4        | 0.5        | 2.7                   | -          |
| 8                     | -                           | 0.5 - 3.0         | 0.7        | 1.0        | 0.4        | 1.0        | 1.8                   | -          |
| <b>114</b>            | <b>-</b>                    | <b>1F - 3.0</b>   | <b>0.7</b> | <b>0.4</b> | <b>0.3</b> | <b>1.0</b> | <b>0.8</b>            | <b>0.5</b> |
| 9                     | -                           | 0.4 - 2.2         | 0.9        | 3.0        | 0.8        | 0.8        | 10.5                  | -          |
| 26                    | -                           | 1F - 1.8          | 3M         | 0.3        | 0.4        | 0.7        | - <sup>4</sup>        | -          |
| 30                    | 0.7 - 0.9                   | 0.3 - 1.8         | 0.9        | 0.5        | 0.8        | 1.2        | 1.3                   | -          |
| <b>70</b>             | <b>-</b>                    | <b>0.8 - 2.0</b>  | <b>3.3</b> | <b>1.0</b> | <b>2.1</b> | <b>0.8</b> | <b>0.9</b>            | <b>0.3</b> |
| 71                    | -                           | 0.4 - 1.4         | 0.6        | 0.8        | 1.3        | 0.9        | 3.0                   | -          |
| <b>Averages</b>       | <b>0.8</b>                  | <b>1.6</b>        | <b>1.2</b> | <b>1.8</b> | <b>1.0</b> | <b>1.9</b> | <b>1.6</b>            | <b>0.5</b> |

<sup>1</sup> Bold italics indicates plots that are monitored annually. <sup>2</sup> M, F- single sex captures denoted as M (male) and F (female). <sup>3</sup> Plots not sampled. <sup>4</sup> Because of bear safety concerns, live-trapping was stopped after 1 day. No voles were captured during the 1 day of live-trapping.

### 3.2.3 Weight Classes

#### 3.2.3.1 Annually Monitored Plots

Earlier monitoring studies in the SHTC study area assigned voles to age classes based on body weight but analyses by Westworth Associates Environmental Ltd. (1999, 2004) indicated that body weight may be a poor indicator of age which can provide misleading results with respect to breeding status and age structure. Consequently, voles were categorized only based on weight classes since 2007. Voles weighing <13 g were classified as light (formerly 'juveniles'), those weighing 13 - 18 g were classified as moderate (formerly 'sub-adults'), while those weighing >18 g were classified as heavy (formerly 'adults').

Using these criteria, 82% of the June 2024 vole population consisted of “heavy” animals. By comparison, only 18% were composed of “moderate” individuals and 0% of the animals in the lightweight class were captured in June (Figure 3-3). On an individual plot basis, 67%, 100%, and 80% of the voles captured on plots 11, 114, and 70 in 2024 were classed as “heavy”, respectively (Figure 3-3). These results are similar, for the most part, to the weight class compositions recorded in previous monitoring years (Figure 3-3). “Heavy” voles have typically comprised an average of 40 to 100% of the June population during most years, while “moderate” voles have ranged between 0 and 58%. “Light” voles generally make up <15% of the population in June although in 1994, “light” voles comprised 46% of the voles captured in that monitoring year (Figure 3-3). The higher ratio of “heavy” to “light” weight voles is typical in June (Figure 3-3) and reflects the predominance of heavier, over-wintered voles.

In September 2024, voles in the “heavy” weight class accounted for only 4% of the animals captured across the 3 monitoring plots, considerably less than the “moderate” category (86%) and less than the “light” vole class (10%) (Figure 3-4). On an individual plot basis, voles characterized as “heavy” comprised 13% of the voles captured although no “heavy” voles were captured at plots 114 and 70 in 2024 (Figure 3-4). Historically, most individuals in September populations are usually in the “moderate” weight class, with fluctuating proportions of individuals in the “heavy” and “light” weight classes (Figure 3-4). Weight class profiles for individual plots in 2024 were like those recorded in previous years (Figure 3-4), reflecting the predominance of individuals in the “moderate” weight class.

#### 3.2.3.2 *Expanded Monitoring Plots*

Because of the changes in the scope of the 2024 expanded wildlife monitoring program, both the June and September weight classes for red-backed voles were the same as those reported for the 3 2024 annually monitored plots (see Figure 3-3). In June 2024, 82% of the vole population was comprised of “heavy” animals. In comparison, 18% of the population was composed of “moderate” individuals and 0% were “light” individuals (Table 3-8). The results are similar to the weight class compositions recorded in previous expanded monitoring years. “Heavy” voles have always comprised an average of 61 to 95% of the June population, while “moderate” voles ranged between 3 and 30%. “Light” voles generally make up <10% of the population in June although in 1994, 19% of the voles captured were comprised of ‘light’ individuals (Table 3-8).

In September 2024, only 86% of the vole population was comprised of individuals in the ‘moderate’ weight class, the highest recorded since 1994 (range = 42% - 76%) (Table 3-9). In comparison, ‘heavy’ voles comprised only 4% of the population in September 2024, the lowest recorded since 1994 (range = 10 – 43%), while “light” voles comprised 10%, slightly higher than that recorded in 1999 (7%) (Table 3-9). Historically, most individuals in September

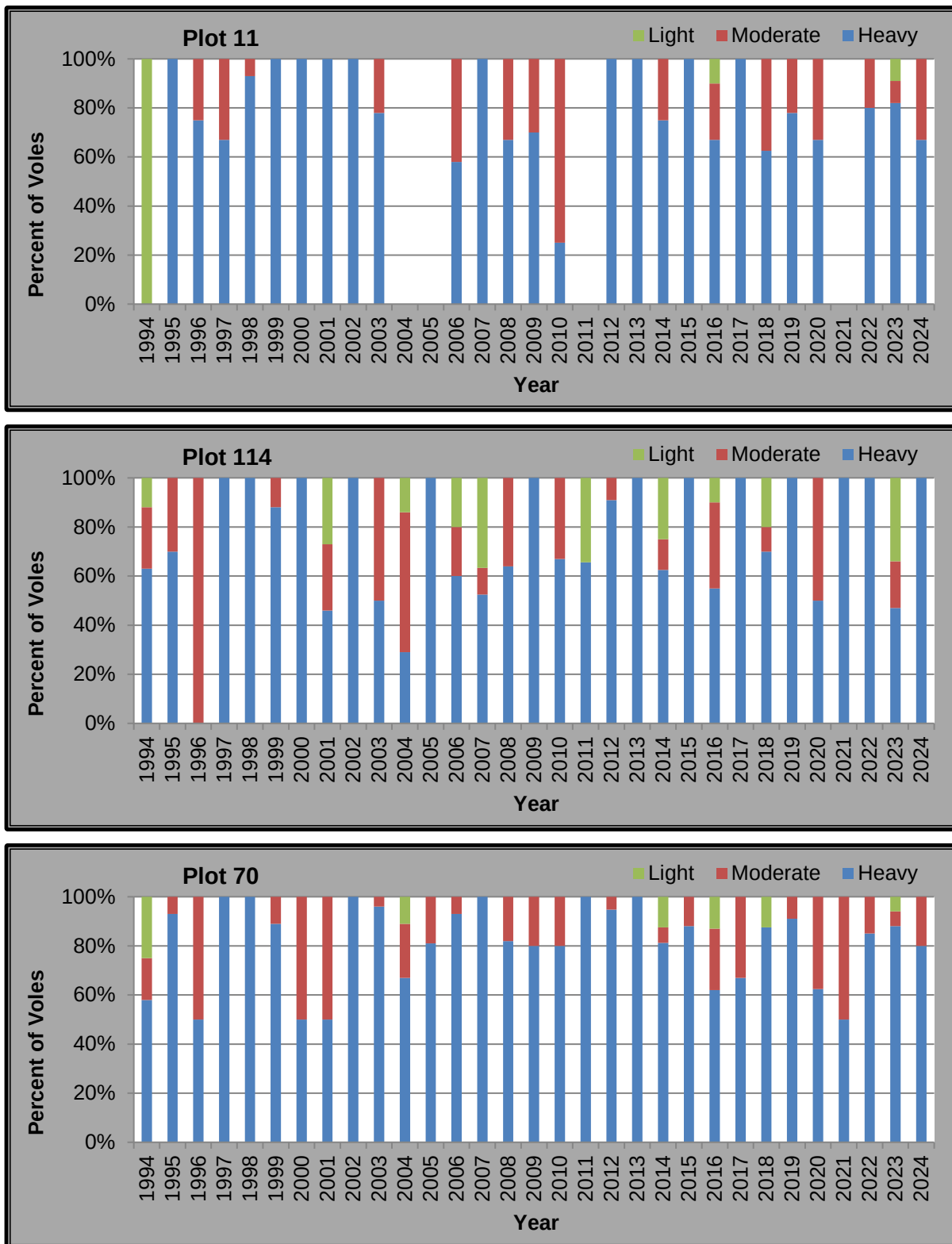


**Figure 3-3.** June weight classes of red-backed voles at 3 plots monitored annually in the SHTC area between 1994 and 2024.



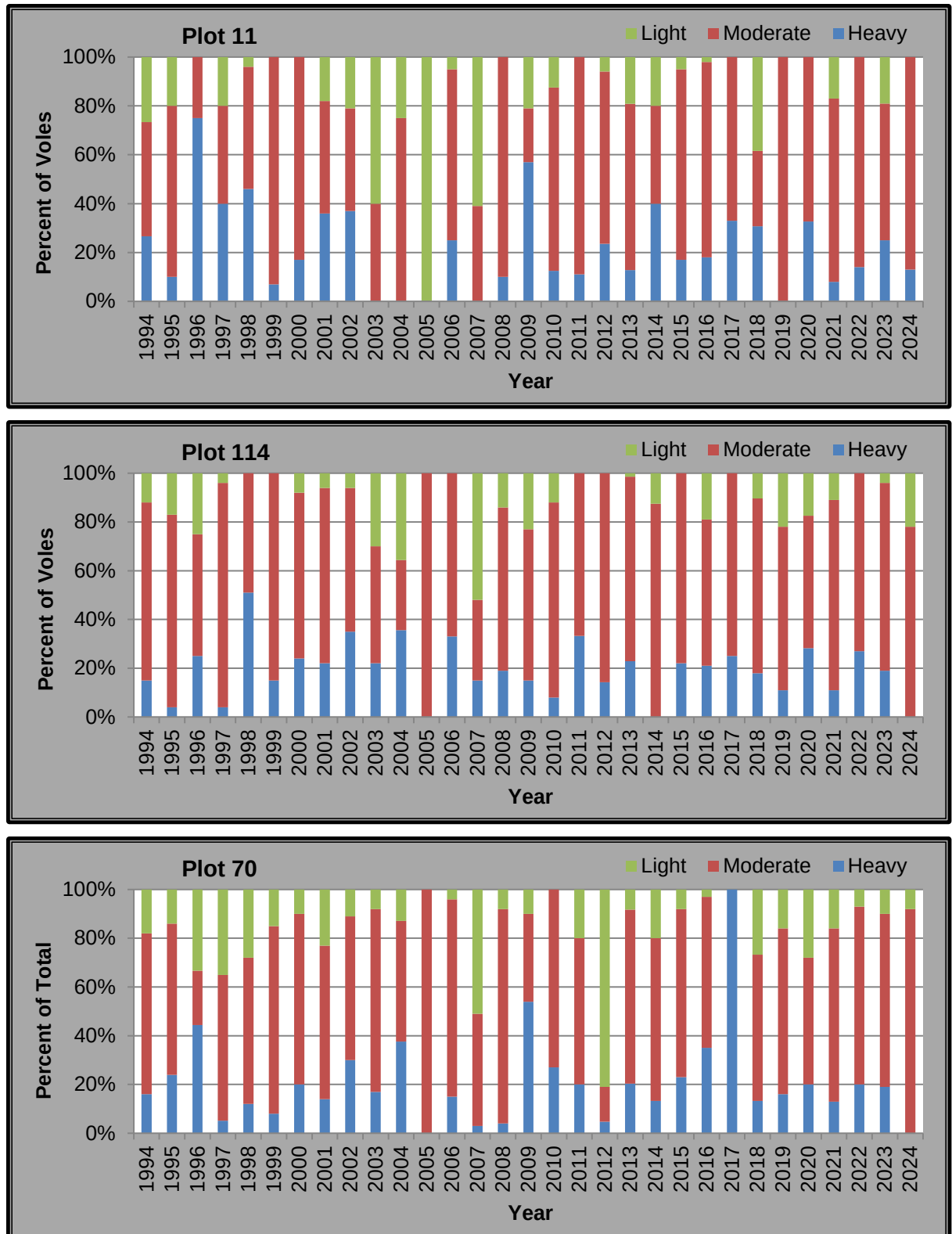


**Figure 3-4.** September weight classes of red-backed voles at 3 plots monitored annually in the SHTC study area between 1994 and 2024.

populations are usually in the “moderate” weight class, with fluctuating proportions of individuals in the “heavy” and “light” weight classes.

**Table 3-8.** Weight classes of red-backed voles recorded during expanded wildlife monitoring programs (13 plots) in the SHTC area, June 1986 – 2024.

| Phase             | Year    | Heavy    |           | Moderate |           | Light    |           |
|-------------------|---------|----------|-----------|----------|-----------|----------|-----------|
|                   |         | Mean (%) | Range (%) | Mean (%) | Range (%) | Mean (%) | Range (%) |
| Baseline Phase    | 1986-87 | 95       | 91 - 100  | 3        | 0 - 5     | 2        | 0 - 4     |
| Operational Phase | 1994    | 61       | 0 - 100   | 20       | 0 - 57    | 19       | 0 - 100   |
|                   | 1999    | 86       | 55 - 100  | 11       | 0 - 45    | 3        | 0 - 40    |
|                   | 2004    | 61       | 29 - 100  | 30       | 14 - 67   | 9        | 0 - 29    |
|                   | 2009    | 86       | 70 - 100  | 12       | 0 - 30    | 2        | 0 - 10    |
|                   | 2014    | 78       | 40 - 100  | 17       | 0 - 60    | 4        | 0 - 25    |
|                   | 2019    | 94       | 18 - 100  | 5        | 0 - 22    | 1        | 0 - 12    |
|                   | 2024    | 82       | 67 - 100  | 18       | 0 - 30    | 0        | 0         |

**Table 3-9.** Weight classes of red-backed voles during expanding monitoring programs (13 plots) in the SHTC study area, September 1986 - 2024.

| Phase             | Year    | Heavy    |           | Moderate |           | Light    |           |
|-------------------|---------|----------|-----------|----------|-----------|----------|-----------|
|                   |         | Mean (%) | Range (%) | Mean (%) | Range (%) | Mean (%) | Range (%) |
| Baseline Phase    | 1986-87 | 27       | 24 - 30   | 57       | 54 - 59   | 17       | 16 - 17   |
| Operational Phase | 1994    | 18       | 0 - 35    | 62       | 39 - 77   | 20       | 7 - 47    |
|                   | 1999    | 17       | 0 - 100   | 76       | 0 - 100   | 7        | 0 - 22    |
|                   | 2004    | 28       | 0 - 62    | 56       | 29 - 80   | 17       | 0 - 44    |
|                   | 2009    | 43       | 0 - 65    | 42       | 20 - 64   | 15       | 0 - 50    |
|                   | 2014    | 18       | 0 - 40    | 64       | 40 - 88   | 18       | 0 - 40    |
|                   | 2019    | 10       | 0 - 40    | 69       | 40 - 100  | 21       | 0 - 22    |
|                   | 2024    | 4        | 0 - 13    | 86       | 78 - 92   | 10       | 0 - 22    |

### 3.2.4 Reproduction

#### 3.2.4.1 Annually Monitored Plots

Overall, 57% of the males and 50% of the females in the heavy weight class were in breeding condition in June 2024 similar to previously recorded ranges for these 3 plots (Table 3-11). The percentage of individuals in the heavy weight class in breeding condition in June is usually high, with overall averages for both males and females typically >70% for most years, although the percentages of breeding voles can be highly variable among plots (0 - 100%) and between the sexes (Table 3-11). No trends in reproductive condition of voles were apparent with respect to distance from the SHTC in June 2024.

**Table 3-10.** Percentages of red-backed voles in the heavy weight class breeding on annually monitored plots in the SHTC study area, June 1986 - 2024.

| Year | Sex    | Plot 11          |            | Plot 114 |            | Plot 70 |            | Overall |            |
|------|--------|------------------|------------|----------|------------|---------|------------|---------|------------|
|      |        | No.              | % Breeding | No.      | % Breeding | No.     | % Breeding | No.     | % Breeding |
| 1994 | Male   | 0                | 0          | 7        | 43         | 4       | 25         | 11      | 36         |
|      | Female | 0                | 0          | 3        | 67         | 3       | 100        | 6       | 83         |
| 1995 | Male   | 5                | 80         | 3        | 33         | 8       | 25         | 16      | 44         |
|      | Female | 3                | 100        | 4        | 50         | 5       | 80         | 12      | 75         |
| 1996 | Male   | 2                | 100        | 0        | 0          | 2       | 100        | 4       | 100        |
|      | Female | 1                | 100        | 0        | 0          | 1       | 100        | 2       | 100        |
| 1997 | Male   | 2                | 100        | 2        | 100        | 5       | 100        | 9       | 100        |
|      | Female | 0                | 0          | 0        | 0          | 0       | 0          | 0       | 0          |
| 1998 | Male   | 9                | 78         | 5        | 100        | 12      | 83         | 26      | 85         |
|      | Female | 5                | 20         | 6        | 83         | 7       | 100        | 18      | 72         |
| 1999 | Male   | 10               | 100        | 6        | 100        | 8       | 100        | 24      | 100        |
|      | Female | 3                | 100        | 9        | 56         | 8       | 88         | 20      | 75         |
| 2000 | Male   | 2                | 100        | 2        | 50         | 1       | 100        | 5       | 80         |
|      | Female | 1                | 0          | 1        | 100        | 0       | 0          | 2       | 50         |
| 2001 | Male   | 2                | 100        | 3        | 100        | 1       | 100        | 5       | 100        |
|      | Female | 0                | 0          | 2        | 100        | 0       | 0          | 2       | 100        |
| 2002 | Male   | 11               | 100        | 11       | 100        | 11      | 100        | 33      | 100        |
|      | Female | 7                | 100        | 9        | 78         | 8       | 100        | 24      | 96         |
| 2003 | Male   | 3                | 100        | 9        | 100        | 13      | 100        | 25      | 100        |
|      | Female | 6                | 83         | 4        | 80         | 9       | 90         | 18      | 86         |
| 2004 | Male   | n/a <sup>1</sup> | n/a        | 1        | 100        | 2       | 50         | 3       | 60         |
|      | Female | n/a              | n/a        | 1        | 100        | 2       | 100        | 3       | 100        |
| 2005 | Male   | n/a              | n/a        | 2        | 100        | 8       | 80         | 10      | 83         |
|      | Female | n/a              | n/a        | 2        | 100        | 4       | 67         | 6       | 75         |
| 2006 | Male   | 4                | 75         | 6        | 50         | 10      | 70         | 20      | 65         |
|      | Female | 3                | 67         | 3        | 67         | 3       | 67         | 9       | 67         |
| 2007 | Male   | 8                | 100        | 4        | 67         | 21      | 95         | 33      | 92         |
|      | Female | 7                | 100        | 6        | 86         | 7       | 70         | 20      | 83         |
| 2008 | Male   | 3                | 100        | 2        | 100        | 5       | 100        | 10      | 100        |
|      | Female | 0                | 0          | 2        | 40         | 3       | 75         | 5       | 50         |
| 2009 | Male   | 4                | 100        | 0        | 0          | 7       | 100        | 11      | 100        |
|      | Female | 3                | 100        | 1        | 100        | 5       | 100        | 6       | 100        |
| 2010 | Male   | 0                | 0          | 0        | 0          | 4       | 50         | 4       | 40         |
|      | Female | 1                | 100        | 0        | 0          | 2       | 50         | 3       | 60         |
| 2011 | Male   | n/a              | n/a        | 6        | 67         | 5       | 60         | 11      | 64         |

| Year | Sex    | Plot 11 |            | Plot 114 |            | Plot 70 |            | Overall   |            |
|------|--------|---------|------------|----------|------------|---------|------------|-----------|------------|
|      |        | No.     | % Breeding | No.      | % Breeding | No.     | % Breeding | No.       | % Breeding |
|      | Female | n/a     | n/a        | 2        | 100        | 1       | 100        | <b>3</b>  | <b>100</b> |
| 2012 | Male   | 0       | 0          | 7        | 100        | 13      | 85         | <b>20</b> | <b>85</b>  |
|      | Female | 1       | 100        | 3        | 100        | 5       | 100        | <b>9</b>  | <b>100</b> |
| 2013 | Male   | 10      | 40         | 14       | 7          | 22      | 41         | <b>46</b> | <b>30</b>  |
|      | Female | 8       | 25         | 9        | 33         | 12      | 42         | <b>29</b> | <b>34</b>  |
| 2014 | Male   | 0       | 0          | 2        | 67         | 6       | 86         | <b>8</b>  | <b>80</b>  |
|      | Female | 1       | 50         | 2        | 100        | 3       | 60         | <b>6</b>  | <b>67</b>  |
| 2015 | Male   | 2       | 100        | 1        | 100        | 6       | 86         | <b>9</b>  | <b>90</b>  |
|      | Female | 1       | 100        | 1        | 100        | 5       | 83         | <b>7</b>  | <b>88</b>  |
| 2016 | Male   | 11      | 79         | 5        | 46         | 19      | 86         | <b>35</b> | <b>75</b>  |
|      | Female | 5       | 46         | 2        | 100        | 15      | 65         | <b>22</b> | <b>61</b>  |
| 2017 | Male   | 0       | 0          | 0        | 0          | 1       | 33         | <b>1</b>  | <b>20</b>  |
|      | Female | 3       | 50         | 2        | 100        | 3       | 50         | <b>8</b>  | <b>57</b>  |
| 2018 | Male   | 3       | 75         | 3        | 75         | 6       | 100        | <b>12</b> | <b>86</b>  |
|      | Female | 3       | 75         | 4        | 67         | 1       | 50         | <b>8</b>  | <b>58</b>  |
| 2019 | Male   | 5       | 100        | 6        | 67         | 16      | 100        | <b>27</b> | <b>90</b>  |
|      | Female | 2       | 50         | 1        | 50         | 4       | 57         | <b>7</b>  | <b>54</b>  |
| 2020 | Male   | 2       | 67         | 0        | 0          | 4       | 57         | <b>6</b>  | <b>50</b>  |
|      | Female | 2       | 67         | 3        | 75         | 1       | 100        | <b>6</b>  | <b>75</b>  |
| 2021 | Male   | 0       | 0          | 2        | 100        | 5       | 83         | <b>7</b>  | <b>75</b>  |
|      | Female | 0       | 0          | 2        | 100        | 0       | 0          | <b>2</b>  | <b>50</b>  |
| 2022 | Male   | 2       | 100        | 2        | 100        | 4       | 67         | <b>8</b>  | <b>80</b>  |
|      | Female | 1       | 33         | 0        | 0          | 7       | 100        | <b>8</b>  | <b>80</b>  |
| 2023 | Male   | 7       | 88         | 5        | 39         | 6       | 67         | <b>18</b> | <b>57</b>  |
|      | Female | 3       | 100        | 9        | 47         | 6       | 86         | <b>18</b> | <b>62</b>  |
| 2024 | Male   | 2       | 67         | 0        | 0          | 2       | 50         | <b>4</b>  | <b>57</b>  |
|      | Female | 0       | 0          | 1        | 100        | 0       | 0          | <b>1</b>  | <b>50</b>  |

Overall, 0% of male and 13% of female voles captured in the heavy weight class were in breeding condition in September 2024 similar to previously recorded ranges of breeding individuals (Table 3-11). For both sexes, the overall percentage of breeding individuals in the heavy weight class in September has also been highly variable (0 – 100%) among plots and across years (Table 3-11). Two factors likely account for the variable breeding rates: (1) the number of voles in the heavy weight class is usually low since a larger proportion of the population is comprised of light to moderate individuals (i.e., young-of-the year), which increases variability, and (2) the timing of September monitoring occurs after the main

breeding season (early June - late August) which affects the number of reproductive animals captured. No trend in reproductive condition of voles was apparent with respect to distance from the SHTC in September 2024.

**Table 3-11.** Percentages of red-backed voles in the heavy weight class breeding on annually monitored plots in the SHTC study area, September 1986 – 2024.

| Year | Sex    | Plot 11 |            | Plot 114 |            | Plot 70 |            | Overall |            |
|------|--------|---------|------------|----------|------------|---------|------------|---------|------------|
|      |        | No.     | % Breeding | No.      | % Breeding | No.     | % Breeding | No.     | % Breeding |
| 1994 | Male   | 3       | 67         | 3        | 33         | 3       | 33         | 9       | 44         |
|      | Female | 5       | 40         | 2        | 50         | 4       | 75         | 11      | 55         |
| 1995 | Male   | 0       | 0          | 1        | 100        | 4       | 0          | 5       | 0          |
|      | Female | 1       | 100        | 0        | 0          | 1       | 100        | 2       | 100        |
| 1996 | Male   | 1       | 100        | 2        | 100        | 2       | 100        | 5       | 100        |
|      | Female | 2       | 100        | 0        | 0          | 2       | 100        | 4       | 100        |
| 1997 | Male   | 1       | 100        | 0        | 0          | 0       | 0          | 1       | 100        |
|      | Female | 1       | 50         | 1        | 100        | 2       | 50         | 4       | 67         |
| 1998 | Male   | 7       | 29         | 5        | 20         | 8       | 25         | 20      | 25         |
|      | Female | 6       | 33         | 13       | 8          | 6       | 17         | 25      | 16         |
| 1999 | Male   | 2       | 0          | 2        | 50         | 1       | 0          | 5       | 20         |
|      | Female | 0       | 0          | 1        | 100        | 0       | 0          | 1       | 100        |
| 2000 | Male   | 1       | 0          | 2        | 0          | 0       | 0          | 3       | 0          |
|      | Female | 0       | 0          | 4        | 75         | 2       | 0          | 6       | 50         |
| 2001 | Male   | 0       | 0          | 1        | 100        | 0       | 0          | 1       | 100        |
|      | Female | 4       | 100        | 7        | 86         | 5       | 80         | 16      | 94         |
| 2002 | Male   | 4       | 50         | 15       | 7          | 7       | 14         | 26      | 15         |
|      | Female | 10      | 40         | 7        | 29         | 6       | 50         | 23      | 39         |
| 2003 | Male   | 4       | 0          | 14       | 7          | 8       | 25         | 26      | 12         |
|      | Female | 0       | 0          | 9        | 44         | 4       | 50         | 13      | 46         |
| 2004 | Male   | 0       | 0          | 0        | 0          | 0       | 0          | 0       | 0          |
|      | Female | 0       | 0          | 0        | 0          | 0       | 0          | 0       | 0          |
| 2005 | Male   | 0       | 0          | 0        | 0          | 0       | 0          | 0       | 0          |
|      | Female | 0       | 0          | 0        | 0          | 0       | 0          | 0       | 0          |
| 2006 | Male   | 3       | 75         | 5        | 83         | 1       | 100        | 9       | 82         |
|      | Female | 5       | 83         | 2        | 29         | 3       | 100        | 10      | 63         |
| 2007 | Male   | 0       | 0          | 3        | 75         | 0       | 0          | 3       | 75         |
|      | Female | 0       | 0          | 2        | 50         | 1       | 100        | 3       | 60         |
| 2008 | Male   | 0       | 0          | 0        | 0          | 0       | 0          | 0       | 0          |
|      | Female | 0       | 0          | 0        | 0          | 0       | 0          | 0       | 0          |

| Year | Sex    | Plot 11 |            | Plot 114 |            | Plot 70 |            | Overall |            |
|------|--------|---------|------------|----------|------------|---------|------------|---------|------------|
|      |        | No.     | % Breeding | No.      | % Breeding | No.     | % Breeding | No.     | % Breeding |
| 2009 | Male   | 0       | 0          | 0        | 0          | 0       | 0          | 0       | 0          |
|      | Female | 1       | 0          | 3        | 0          | 1       | 0          | 4       | 0          |
| 2010 | Male   | 0       | 0          | 0        | 0          | 2       | 67         | 2       | 50         |
|      | Female | 1       | 0          | 1        | 100        | 0       | 0          | 2       | 50         |
| 2011 | Male   | 3       | 67         | 2        | 50         | 2       | 50         | 7       | 57         |
|      | Female | 6       | 0          | 4        | 25         | 3       | 0          | 13      | 0          |
| 2012 | Male   | 1       | 100        | 0        | 0          | 0       | 0          | 1       | 100        |
|      | Female | 2       | 67         | 1        | 50         | 1       | 100        | 4       | 67         |
| 2013 | Male   | 2       | 50         | 7        | 0          | 4       | 0          | 13      | 8          |
|      | Female | 4       | 50         | 9        | 44         | 6       | 67         | 19      | 53         |
| 2014 | Male   | 0       | 0          | 0        | 0          | 1       | 100        | 1       | 100        |
|      | Female | 0       | 0          | 0        | 0          | 2       | 67         | 2       | 67         |
| 2015 | Male   | 0       | 0          | 0        | 0          | 0       | 0          | 0       | 0          |
|      | Female | 0       | 0          | 0        | 0          | 1       | 20         | 1       | 14         |
| 2016 | Male   | 3       | 20         | 3        | 15         | 5       | 10         | 12      | 14         |
|      | Female | 3       | 15         | 4        | 17         | 5       | 11         | 11      | 13         |
| 2017 | Male   | 0       | 0          | 1        | 100        | 0       | 0          | 1       | 25         |
|      | Female | 0       | 0          | 1        | 33         | 0       | 0          | 1       | 25         |
| 2018 | Male   | 2       | 22         | 1        | 5          | 1       | 25         | 4       | 12         |
|      | Female | 1       | 25         | 0        | 0          | 0       | 0          | 5       | 15         |
| 2019 | Male   | 0       | 0          | 2        | 25         | 1       | 8          | 3       | 21         |
|      | Female | 0       | 0          | 0        | 0          | 3       | 23         | 3       | 23         |
| 2020 | Male   | 2       | 40         | 1        | 25         | 3       | 18         | 6       | 18         |
|      | Female | 0       | 0          | 1        | 13         | 2       | 25         | 3       | 23         |
| 2021 | Male   | 0       | 0          | 0        | 9          | 3       | 19         | 3       | 9          |
|      | Female | 1       | 50         | 2        | 13         | 3       | 10         | 6       | 10         |
| 2022 | Male   | 2       | 40         | 3        | 25         | 4       | 44         | 9       | 35         |
|      | Female | 0       | 0          | 1        | 10         | 1       | 5          | 2       | 6          |
| 2023 | Male   | 2       | 25         | 0        | 0          | 1       | 7          | 3       | 9          |
|      | Female | 2       | 25         | 3        | 12         | 1       | 14.3       | 6       | 22         |
| 2024 | Male   | 0       | 0          | 0        | 0          | 0       | 0          | 0       | 0          |
|      | Female | 2       | 25         | 1        | 17         | 0       | 0          | 3       | 13         |

#### 3.2.4.2 Expanded Monitoring Plots

Because of the changes in the scope of the 2024 expanded wildlife monitoring program, both the June and September breeding weight classes for red-backed voles were the same as those reported for the 3 2024 annually monitored plots (see Table 3-10 and Table 3-11).

Overall, 57% of the males and 50% of the females in the heavy weight class were in breeding condition on the 3 expanded monitoring plots in June 2024 (Table 3-12). These numbers are lower than those recorded in June 2019 and represent the lowest recorded ranges based on previous expanded monitoring years (Table 3-12). As with the 3 annually monitored plots, the percentage of individuals in the heavy weight class in breeding condition in June is usually high, with averages for both males and females typically  $\geq 70\%$  for most years, although the percentages of breeding voles can be highly variable among plots (0 - 100%) and between the sexes.

**Table 3-12.** Percentages of red-backed voles in the heavy weight class breeding in the SHTC study area during the expanded monitoring programs, June 1986 - 2024.

| Phase             | Year    | Male     |           | Female   |           |
|-------------------|---------|----------|-----------|----------|-----------|
|                   |         | Mean (%) | Range (%) | Mean (%) | Range (%) |
| Baseline Phase    | 1986-87 | 100      | 100 - 100 | 100      | 100 - 100 |
| Operational Phase | 1994    | 70       | 40 - 100  | 78       | 0 - 100   |
|                   | 1999    | 91       | 71 - 100  | 76       | 0 - 100   |
|                   | 2004    | 94       | 50 - 100  | 85       | 50 - 100  |
|                   | 2009    | 100      | 100 - 100 | 94       | 100 - 100 |
|                   | 2014    | 66       | 0 - 100   | 74       | 33 - 100  |
|                   | 2019    | 93       | 67 - 100  | 66       | 33 - 100  |
|                   | 2024    | 57       | 0 - 67    | 50       | 0 - 100   |

In September 2024, 0% of male and 13% of female voles captured in the ‘heavy’ weight class were in breeding condition (Table 3-13). These percentages are within previously observed ranges of breeding individuals but are among the lower values reported during previous expanded monitoring years. As with the 3 annually monitored plots, the overall percentage of breeding individuals of both sexes in the heavy weight class in September has been highly variable (0 – 100%) among plots and across years.

### 3.2.1 Survival

The September 2023 to June 2024 survival rate could not be calculated for 2 of the 3 population plots since no previously tagged voles were known to have over-wintered during this period. However, one vole previously tagged in September 2023 was captured in June 2024 at plot 70 for a survival rate of 0.92 (Table 3-14). Typically, overwinter survival rates are low because of the long interval (283 days) between the 2 trapping sessions which would have reduced the likelihood of recapturing tagged animals in June 2024.

**Table 3-13.** Percentages of red-backed voles in the heavy weight class breeding in the SHTC study area during the expanded monitoring programs, September 1986 – 2024.

| Phase             | Year    | Male     |           | Female   |           |
|-------------------|---------|----------|-----------|----------|-----------|
|                   |         | Mean (%) | Range (%) | Mean (%) | Range (%) |
| Baseline Phase    | 1986-87 | 9        | 0 - 17    | 54       | 43 - 64   |
| Operational Phase | 1994    | 50       | 0 - 100   | 63       | 0 - 100   |
|                   | 1999    | 33       | 0 - 100   | 63       | 0 - 100   |
|                   | 2004    | 0        | 0         | 0        | 0         |
|                   | 2009    | 1        | 0 - 9     | 9        | 0 - 50    |
|                   | 2014    | 17       | 0 - 100   | 61       | 0 - 100   |
|                   | 2019    | 22       | 0 - 50    | 19       | 0 - 50    |
|                   | 2024    | 0        | 0         | 13       | 0 - 25    |

Red-backed voles are short-lived with a maximum lifespan of 1 year (Boonstra and Krebs 2011). Consequently, their entire breeding lifespan typically occurs over 1 season (March – October). Average overwinter survival (when it could be calculated) has ranged from 0.64 to 0.96 (Table 3-14) in the past and is typically higher when previous September vole populations are higher. No voles that were tagged in June were captured in September 2024.

Historical data indicate that overwinter survival is typically higher than survival over the summer period since voles are more exposed to predators and weather conditions (cool and rain/wet snow conditions) during the snow-free period. When survival rates could be calculated (Table 3-14), the mean September to June (1987-2024) survival is 0.88, whereas the mean June to September (1987-2024) survival is only 0.65 at the 3 annually monitored plots.

**Table 3-14.** Intercession 14-day survival rate of red-backed voles in the SHTC study area, 1987 - 2024.

| Year | Plot 11          |                 | Plot 114 |           | Plot 70 |           | Overall |           |
|------|------------------|-----------------|----------|-----------|---------|-----------|---------|-----------|
|      | June             | September       | June     | September | June    | September | June    | September |
| 1987 | npc <sup>1</sup> | 0.79            | -        | -         | -       | -         | npc     | 0.79      |
| 1988 | npc              | ns <sup>2</sup> | -        | -         | -       | -         | npc     | ns        |
| 1989 | 0.92             | 1.00            | -        | -         | -       | -         | 0.92    | 1.00      |
| 1990 | npc              | ns              | npc      | 0.79      | -       | -         | npc     | 0.73      |
| 1991 | npc              | ns              | 0.9      | 0.71      | npc     | ns        | 0.87    | 0.53      |
| 1992 | npc              | ns              | 0.89     | 0.71      | 0.9     | ns        | 0.89    | 0.65      |
| 1993 | npc              | ns              | npc      | ns        | npc     | ns        | npc     | ns        |



| Year | Plot 11           |           | Plot 114 |           | Plot 70 |           | Overall |           |
|------|-------------------|-----------|----------|-----------|---------|-----------|---------|-----------|
|      | June              | September | June     | September | June    | September | June    | September |
| 1994 | 0.86              | ns        | npc      | 0.67      | npc     | ns        | npc     | 0.49      |
| 1995 | 1.06 <sup>3</sup> | ns        | 0.86     | ns        | 0.92    | 0.68      | 0.92    | 0.54      |
| 1996 | npc               | ns        | npc      | ns        | npc     | ns        | npc     | ns        |
| 1997 | npc               | ns        | npc      | 1.00      | npc     | ns        | npc     | 0.52      |
| 1998 | npc               | ns        | 0.77     | 0.87      | 0.75    | 0.88      | 0.88    | 0.62      |
| 1999 | 0.87              | ns        | 0.9      | ns        | 0.82    | ns        | 0.9     | ns        |
| 2000 | npc               | ns        | npc      | ns        | npc     | ns        | npc     | ns        |
| 2001 | 0.96              | ns        | npc      | ns        | npc     | ns        | 0.96    | ns        |
| 2002 | 0.86              | 0.54      | 0.93     | 0.56      | 0.86    | 0.53      | 0.89    | 0.54      |
| 2003 | 0.96              | ns        | 0.97     | 0.62      | 0.93    | ns        | 0.94    | 0.57      |
| 2004 | npc               | npc       | npc      | ns        | npc     | ns        | npc     | ns        |
| 2005 | npc               | npc       | npc      | ns        | npc     | 0.65      | npc     | 0.63      |
| 2006 | npc               | 0.75      | npc      | ns        | npc     | 0.82      | npc     | 0.74      |
| 2007 | 0.87              | 0.64      | 0.93     | 0.53      | 0.94    | 0.55      | 0.93    | 0.58      |
| 2008 | npc               | ns        | 0.9      | ns        | 0.86    | ns        | 0.87    | ns        |
| 2009 | npc               | ns        | npc      | ns        | npc     | 0.81      | npc     | 0.68      |
| 2010 | npc               | ns        | 0.94     | 0.71      | 0.92    | ns        | 0.95    | 0.71      |
| 2011 | npc               | npc       | npc      | ns        | npc     | ns        | npc     | ns        |
| 2012 | npc               | 1.00      | npc      | 0.68      | npc     | 0.74      | npc     | 0.81      |
| 2013 | 0.91              | 0.72      | 0.87     | 0.68      | 0.93    | 0.74      | 0.91    | 0.72      |
| 2014 | npc               | 0.82      | 0.62     | npc       | 0.73    | 0.75      | 0.64    | 0.72      |
| 2015 | npc               | 0.66      | npc      | ns        | npc     | 0.58      | npc     | 0.59      |
| 2016 | npc               | 0.62      | npc      | ns        | 0.80    | 0.65      | 0.76    | 0.62      |
| 2017 | 0.93              | ns        | npc      | ns        | npc     | ns        | 0.89    | ns        |
| 2018 | npc               | ns        | npc      | ns        | npc     | ns        | npc     | ns        |
| 2019 | npc               | ns        | 0.88     | ns        | npc     | ns        | 0.82    | ns        |
| 2020 | npc               | 0.76      | ns       | ns        | npc     | 0.61      | npc     | 0.61      |
| 2021 | npc               | ns        | npc      | ns        | npc     | ns        | npc     | ns        |
| 2022 | npc               | ns        | npc      | ns        | npc     | 0.63      | 0.63    | ns        |
| 2023 | npc               | ns        | npc      | 0.65      | npc     | ns        | 0.63    | ns        |
| 2024 | npc               | ns        | npc      | ns        | 0.92    | ns        | 0.90    | ns        |

<sup>1</sup> npc – A survival rate could not be calculated because there were no captures from the previous trapping session. <sup>2</sup> ns - Survival rates could not be calculated as no voles were known to have survived between trapping sessions. <sup>3</sup> A survival rate of greater than 1.00 resulted from the inter-plot movement of tagged animals when plot 11 was relocated.

### 3.2.1.1 Expanded Monitoring Program

Prior to 2014, live trapping was conducted on 13 plots during June and September for each year which permitted the calculation of over-winter survival rates (September to June). However, following the initiation of the expanded monitoring program in 2004 (which occurs once every 5 years), over-winter survival rates for voles could not be calculated. Therefore, only survival rates of voles for the June to September (snow-free) period were calculated for the expanded monitoring years (Table 3-15). Because of the changes in the scope of the 2024 expanded wildlife monitoring program, the June survival rates for red-backed voles are the same as those reported for the 3 2024 annually monitored plots (see Table 3-14). During the 2024 September expanded monitoring year, the average survival rate for voles during the summer period (0.90) was at the upper range of survival rates recorded during previous expanded monitoring years (0.66 to 0.90) (Table 3-15). The highest survival rate in September 2024 was only recorded at plot 70 (Table 3-15).

**Table 3-15.** Intercession 14-day survival rate of red-backed voles between June and September in the SHTC study area during expanded monitoring years, 1994 - 2024.

| Year | Month | Plot <sup>1</sup>     |                 |      |      |      |      |      |             |      |                |      |             |      | Averages    |
|------|-------|-----------------------|-----------------|------|------|------|------|------|-------------|------|----------------|------|-------------|------|-------------|
|      |       | 11 <sup>2</sup>       | 109             | 103  | 4    | 1    | 27   | 8    | 114         | 9    | 26             | 30   | 70          | 71   |             |
| 1994 | June  | <b>0.86</b>           | Nm <sup>4</sup> | ns   | ns   | 0.93 | ns   | ns   | <b>ns</b>   | nm   | ns             | ns   | <b>ns</b>   | ns   | <b>0.90</b> |
|      | Sept. | <b>ns<sup>3</sup></b> | nm              | 0.67 | ns   | 0.75 | ns   | 0.78 | <b>0.67</b> | 0.77 | ns             | 0.83 | <b>ns</b>   | 0.72 | <b>0.74</b> |
| 1999 | June  | <b>0.87</b>           | 0.91            | ns   | ns   | 0.87 | ns   | ns   | <b>0.90</b> | 0.85 | ns             | 0.86 | <b>0.82</b> | 0.85 | <b>0.87</b> |
|      | Sept. | <b>ns</b>             | 0.84            | ns   | ns   | 0.74 | ns   | ns   | <b>ns</b>   | 0.76 | ns             | 0.68 | <b>ns</b>   | 0.83 | <b>0.77</b> |
| 2004 | Sept. | <b>ns</b>             | ns              | ns   | ns   | 0.75 | ns   | ns   | <b>ns</b>   | ns   | ns             | ns   | <b>ns</b>   | ns   | <b>0.75</b> |
| 2009 | Sept. | <b>ns</b>             | 0.64            | 0.70 | 0.68 | 0.72 | 0.63 | 0.81 | <b>ns</b>   | ns   | ns             | 0.68 | <b>0.59</b> | 0.65 | <b>0.68</b> |
| 2014 | Sept. | <b>0.82</b>           | 0.85            | 0.80 | ns   | ns   | 0.77 | 0.79 | <b>ns</b>   | ns   | 0.82           | 0.69 | <b>0.75</b> | 0.82 | <b>0.73</b> |
| 2019 | Sept. | <b>ns</b>             | ns              | 0.83 | 0.61 | 0.80 | 0.71 | ns   | <b>ns</b>   | 0.59 | - <sup>5</sup> | ns   | <b>ns</b>   | ns   | <b>0.66</b> |
| 2024 | Sept. | <b>ns</b>             | -               | -    | -    | -    | -    | -    | <b>ns</b>   | -    | -              | -    | <b>0.92</b> | -    | <b>0.90</b> |

<sup>1</sup> Order of plots indicate increasing distance from SHTC (plot 11 [100 m] to plot 71 [21 km]). <sup>2</sup> Bold italics indicates plots that are monitored annually. <sup>3</sup> ns - Survival rates could not be calculated as no voles were known to have survived between trapping sessions. <sup>4</sup> nm - Plots were not monitored during this period. <sup>5</sup> Because of bear safety concerns, live-trapping was stopped after 1 day. No voles were captured during the 1 day of live-trapping.

## 3.3 Snap-trapping Effort and Success

Overall, 2,720 trap nights of effort were expended during the May 2024 expanded monitoring program to capture enough voles for tissue analyses at the 10 plots (Table 3-16). Mean trapping effort in 2024 was 272 trap nights/plot, second only to the highest effort recorded in May 2023 over the last 11 years (2013 to 2023, range = 74 – 280 trap nights/plot). The high snap-trapping effort recorded in 2023 likely reflected the effects of the 2023 forest fires which may have affected vole trappability. During 2024, snap trapping effort ranged from a low of 80 trap nights at plot 114 to a high of 360 trap nights at plot 117 (Table 3-16).

Forty-five voles were collected in 2024 for an overall capture rate of 1.7 voles/100 trap nights (Table 3-16), which was the lowest recorded over the previous 10-year monitoring period (2013 to 2023, range= 1.8 – 8.6 voles/100 trap nights). The number of voles captured at each plot ranged from 1 to 10 (mean = 4.5 voles/plot, Table 3-16). During previous monitoring years, the variation in trapping success has been highly variable in May among plots, likely reflecting differences in habitat quality and the population phase (i.e., increasing or decreasing) although as indicated above, forest fires in the region also likely had some effect on vole trappability during 2023.

**Table 3-16.** Summary of snap trapping effort and success during the red-backed vole tissue collection program in the SHTC study area, May 2024.

| Plot <sup>1</sup> | Trap Nights  | No. of Voles | No./100 Trap Nights |
|-------------------|--------------|--------------|---------------------|
| 11                | 320          | 4            | 1.3                 |
| 109               | 320          | 5            | 1.6                 |
| 4                 | 320          | 6            | 1.9                 |
| 110               | 240          | 4            | 1.7                 |
| 114               | 160          | 4            | 2.5                 |
| 123               | 280          | 3            | 1.1                 |
| 117               | 360          | 1            | 0.3                 |
| 402               | 160          | 10           | 6.3                 |
| 70                | 280          | 3            | 1.1                 |
| 71                | 280          | 5            | 1.8                 |
| <b>Totals</b>     | <b>2,720</b> | <b>45</b>    | <b>1.7</b>          |
| <b>Averages</b>   | <b>272</b>   | <b>4.5</b>   | <b>-</b>            |

<sup>1</sup> Order of plots indicate increasing distance from SHTC (plot 11 [100 m] to plot 71 [21 km]).

### 3.4 Tissue Chemistry of Red-backed Voles

#### 3.4.1 Polychlorinated Biphenyls (PCBs)

##### 3.4.1.1 Aroclor PCBs

##### Annually Monitored Plots

Aroclor PCB concentrations for the 6 annually monitored plots averaged 0.02 mg/kg in May 2024 which was 75% lower than what was recorded in 2019 (0.08 mg/kg), 78% in 2016 and 2015 (0.09 mg/kg), and 85% less (0.13 mg/kg) than what as recorded in 2014 (Table 3-17). Historically, the concentration of Aroclor PCBs recorded in 2024 were considerably lower than most years but almost the same as those reported to those levels recorded in 1989 when monitoring began. The 2024 average value from the 10 annually monitored plots was below

the 1989-2019 average Aroclor PCB concentration of 0.17 mg/kg and the lowest recorded over that 29-year period (0.04 to 0.56 mg/kg) (Table 3-17).

On an individual plot basis, the highest Aroclor PCB concentration was recorded at plot 4 (0.06 mg/kg) in May 2024, followed by plots 109 (0.03 mg/kg) and 114 (0.02 mg/kg), all of which are located  $\leq 0.7$  km from the SHTC (Table 3-17). In contrast, concentrations of Aroclor PCBs were on average,  $\leq 0.01$  mg/kg or non-detects at the remaining 3 annually monitored plots in 2019. Similar trends in Aroclor PCB concentrations have been recorded in vole tissues collected from annually monitored plots since 1989 (Table 3-17).

#### Expanded Monitoring Plots

The mean whole-body Aroclor PCB concentration in red-backed voles collected from the expanded monitoring plots in May 2024 was 13% lower (0.02 mg/kg) than the level recorded in May 2019 (0.07 mg/kg) and was the lowest since the expanded monitoring program began in 1999 (Table 3-17). In fact, the 2024 Aroclor PCB concentration was slightly higher than those recorded in 1989 (below detection) and 1990 (0.01 mg/kg) and slightly lower than the concentration reported in 1996 (0.03 mg/kg) when concentrations in vole tissues from between 7 and 24 plots were measured (Table 3-17). While the highest Aroclor PCB concentrations recorded in 2024 were associated with 2 annually monitored plots (plot 4 = 0.06 mg/kg and plot 109 = 0.03 mg/kg) close to the SHTC, the 4 expanded monitoring plots ranged from non-detects (plots 117 and 402) to 0.02 mg/kg at plots 110 and 123 (Table 3-17) which were located at various distances from the SHTC (300 m to 21 km).

Figure 3-5 compares the average yearly Aroclor PCB concentrations recorded for plots that were annually monitored to those plots that were monitored during the expanded monitoring program. Up until 1999, between 7 and 24 plots were monitored for Aroclor PCBs. During this period, the trend in concentrations recorded for the expanded monitoring plots was similar to that observed for annually monitored plots although the average concentrations were generally lower. Following rationalization of the monitoring program in 2000 when 24 of the plots were monitored every 5 years, Aroclor PCB concentrations for the annually monitored plots in 1999 and 2004 were higher (42% and 41%, respectively) than the average concentrations recorded for the expanded monitoring plots (Figure 3-5). In 2024, the Aroclor PCB concentrations at annually monitored and expanded monitoring plots were the same (0.02 mg/kg).

Table 3-17. Concentrations of Aroclor PCBs<sup>1</sup> in red-backed voles (mg/kg) collected in the SHTC study area, 1988 – 2024.

| Plot <sup>2</sup>        | Year                     |      |             |             |             |                 |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |            |            |             |                   |
|--------------------------|--------------------------|------|-------------|-------------|-------------|-----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|------------|-------------|-------------------|
|                          | 1988                     | 1989 | 1990        | 1991        | 1992        | 1993            | 1994        | 1995        | 1996        | 1997        | 1998        | 1999        | 2000        | 2001        | 2002        | 2003        | 2004        | 2005        | 2006        | 2007        | 2008        | 2009        | 2010        | 2011        | 2012        | 2013        | 2014        | 2015       | 2016       | 2019        | 2024 <sup>6</sup> |
| 11 <sup>3</sup>          | <i>n.d.</i> <sup>4</sup> | 0.03 | 0.06        | 0.06        | 0.14        | 0.05            | 0.03        | 0.22        | 0.29        | 0.1         | 0.12        | 0.13        | 0.52        | 0.13        | 0.3         | 0.44        | 0.11        | 0.09        | 0.34        | 0.19        | 0.06        | 0.28        | 0.16        | 0.28        | 0.11        | <i>n.d.</i> | 0.18        | 0.11       | 0.11       | 0.13        | 0.01              |
| 109                      | -                        | -    | 0.06        | -           | 0.37        | 0.23            | 0.21        | 1           | 0.51        | 0.01        | 0.09        | 1.3         | 0.74        | 0.42        | 0.46        | 0.6         | 0.94        | 0.3         | 0.32        | 0.17        | 0.05        | 0.08        | 0.1         | 0.82        | 0.43        | 0.6         | 0.14        | 0.13       | 0.08       | 0.11        | 0.03              |
| 103                      | --                       | -    | 0.41        | 0.21        | 0.44        | 0.19            | 0.29        | 0.68        | 1.1         | 0.46        | 1           | 1.1         | -           | -           | -           | -           | 0.25        | -           | -           | -           | -           | 0.84        | -           | -           | -           | -           | 0.96        | -          | -          | 0.29        | -                 |
| 4                        | <i>n.d.</i>              | 0.05 | 0.47        | 0.68        | 0.34        | 0.28            | 0.54        | 1.9         | 1.4         | 0.66        | 0.81        | 2.1         | 0.26        | 0.14        | 0.37        | 0.36        | 0.73        | 0.47        | 0.51        | 1.01        | 0.24        | 0.31        | 0.36        | 0.83        | 0.27        | 1.4         | 0.49        | 0.42       | 0.40       | 0.45        | 0.06              |
| 110                      | -                        | -    | 0.07        | -           | <i>n.d.</i> | 0.03            | 0.02        | 0.03        | 0.12        | 0.01        | 0.08        | 0.19        | 0.04        | 0.02        | <i>n.d.</i> | 0.05        | 0.21        | -           | 0.03        | 0.03        | 0.02        | 0.02        | 0.04        | 0.21        | 0.11        | 0.11        | 0.15        | 0.06       | 0.02       | 0.01        | 0.02              |
| 104                      |                          |      |             |             |             |                 |             |             |             |             |             | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | 0.33        | -           | -           | -           | -           | 0.13        | -          | -          | 0.20        |                   |
| 102                      |                          |      |             |             |             |                 |             |             |             |             |             | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | 0.16        | -           | -           | -           | -           | 0.38        | -          | -          | 0.16        |                   |
| 1                        | n.d.                     | n.d. | 0.04        | 0.07        | n.d.        | 0.19            | 0.11        | 0.31        | 1.2         | 0.83        | 0.33        | 0.54        | -           | -           | -           | -           | 0.08        | -           | -           | -           | -           | 0.07        | -           | -           | -           | -           | 0.27        | -          | -          | 0.12        |                   |
| 27                       | n.d.                     | n.d. | 0.02        | -           | 0.03        | 0.03            | 0.06        | 0.71        | 0.12        | n.d.        | 0.12        | 0.1         | -           | -           | -           | -           | 0.06        | -           | -           | -           | -           | 0.04        | -           | -           | -           | -           | 0.09        | -          | -          | 0.02        |                   |
| 8                        | n.d.                     | n.d. | 0.15        | 0.03        | 0.03        | 0.07            | 0.05        | 0.06        | 0.22        | 0.07        | 0.1         | 0.12        | -           | -           | -           | -           | 0.04        | -           | -           | -           | -           | 0.12        | -           | -           | -           | -           | 0.13        | -          | -          | 0.08        |                   |
| 15                       |                          |      |             |             |             |                 |             |             | 0.13        | 0.07        | 0.08        | 0.13        | -           | -           | -           | -           | 0.03        | -           | -           | -           | -           | 0.07        | -           | -           | -           | -           | 0.04        | -          | -          | 0.02        |                   |
| 114                      | -                        | -    | 0.03        | 0.04        | 0.09        | 0.04            | 0.11        | 0.11        | 0.64        | 0.04        | 0.34        | 0.13        | 0.06        | 0.08        | 0.2         | 0.22        | 0.17        | 0.1         | 0.26        | 0.42        | 0.06        | 0.11        | 0.33        | 0.17        | 0.04        | 0.49        | 0.21        | 0.10       | 0.10       | 0.09        | 0.02              |
| 121                      | -                        | -    | 0.06        | n.d.        | n.d.        | Tr <sup>4</sup> | 0.02        | 0.02        | 0.03        | 0.01        | 0.03        | 0.03        | -           | -           | -           | -           | n.d.        | -           | -           | -           | -           | 0.07        | -           | -           | -           | -           | 0.03        | -          | -          | 0.01        |                   |
| 9                        | -                        | -    | 0.02        | 0.02        | 0.02        | 0.02            | 0.02        | 0.02        | 0.03        | n.d.        | 0.03        | n.d.        | -           | -           | -           | -           | n.d.        | -           | -           | -           | -           | n.d.        | -           | -           | -           | -           | 0.03        | -          | -          | 0.01        |                   |
| 28                       |                          |      |             |             |             |                 |             |             | 0.03        | 0.02        | 0.02        | 0.07        | -           | -           | -           | -           | n.d.        | -           | -           | -           | -           | 0.01        | -           | -           | -           | -           | n.d.        | -          | -          | 0.01        |                   |
| 123                      | -                        | -    | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>Tr</i>       | <i>n.d.</i> | 0.01        | 0.03        | 0.03        | 0.02        | 0.04        | 0.01        | 0.03        | <i>n.d.</i> | 0.05        | 0.03        | 0.03        | 0.02        | 0.05        | 0.03        | 0.02        | 0.19        | 0.02        | 0.02        | 0.04        | 0.02        | 0.02       | 0.01       | 0.01        | 0.02              |
| 16                       | -                        | -    | n.d.        | n.d.        | 0.02        | Tr              | 0.02        | 0.16        | 0.03        | n.d.        | 0.03        | 0.01        | -           | -           | -           | -           | 0.02        | -           | -           | -           | -           | 0.02        | -           | -           | -           | -           | 0.02        | -          | -          | 0.01        |                   |
| 117                      | -                        | -    | <i>n.d.</i> | 0.03        | 0.06        | <i>Tr</i>       | 0.02        | 0.04        | 0.26        | 0.04        | 0.07        | 0.05        | <i>n.d.</i> | 0.02        | 0.03        | 0.07        | 0.02        | 0.05        | 0.08        | 0.11        | 0.06        | <i>n.d.</i> | 0.08        | 0.41        | 0.14        | 0.1         | 0.06        | 0.02       | 0.03       | 0.03        | 0.0               |
| 26                       | n.d.                     | n.d. | n.d.        | -           | -           | n.d.            | n.d.        | 0.07        | 0.05        | 0.05        | 0.02        | 0.03        | -           | -           | -           | -           | n.d.        | -           | -           | -           | -           | n.d.        | -           | -           | -           | -           | n.d.        | -          | -          | n.d.        |                   |
| 30                       | n.d.                     | n.d. | n.d.        | 0.02        | n.d.        | Tr              | 0.02        | 0.02        | 0.04        | n.d.        | 0.03        | n.d.        | -           | -           | -           | -           | 0.02        | -           | -           | -           | -           | n.d.        | -           | -           | -           | -           | n.d.        | -          | -          | n.d.        |                   |
| 29                       |                          |      |             |             |             |                 |             |             | 0.01        | n.d.        | n.d.        | 0.02        | -           | -           | -           | -           | -           | -           | -           | -           | -           | n.d.        | -           | -           | -           | -           | 0.02        | -          | -          | n.d.        |                   |
| 402                      | -                        | -    | -           | -           | -           | -               | -           | -           | -           | -           | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d</i> | <i>n.d</i> | <i>n.d.</i> | n.d.              |
| 70                       | -                        | -    | -           | -           | <i>n.d.</i> | <i>n.d.</i>     | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d</i> | <i>n.d</i> | <i>n.d.</i> | <i>n.d.</i>       |
| 71                       | -                        | -    | -           | -           | <i>n.d.</i> | <i>n.d.</i>     | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | <i>n.d.</i> | 0.01        | <i>n.d.</i> | <i>n.d.</i> | <i>n.d</i> | <i>n.d</i> | <i>n.d.</i> | <i>n.d.</i>       |
| Annual (10) <sup>5</sup> | <i>n.d</i>               | 0.04 | 0.10        | 0.16        | 0.11        | 0.06            | 0.09        | 0.33        | 0.33        | 0.09        | 0.56        | 0.40        | 0.17        | 0.09        | 0.14        | 0.18        | 0.22        | 0.11        | 0.16        | 0.20        | 0.06        | 0.08        | 0.13        | 0.28        | 0.11        | 0.28        | 0.13        | 0.09       | 0.09       | 0.08        | 0.02              |
| Expanded (24)            | n.d                      | 0.01 | 0.10        | 0.12        | 0.07        | 0.07            | 0.07        | 0.28        | 0.30        | 0.13        | 0.15        | 0.23        | -           | -           | -           | -           | 0.13        | -           | -           | -           | -           | 0.11        | -           | -           | -           | -           | 0.15        | -          | -          | 0.07        | 0.02              |

<sup>1</sup> Aroclor PCBs were not measured in 2017 and 2019 in favour of total PCB by the HRMS method.<sup>2</sup> Order of plots indicate increasing distance from SHTC (plot 11 [100 m] to plot 71 [21 km]). <sup>3</sup> Bold italics indicates plots that are monitored annually. <sup>4</sup> n.d.- Not Detected. ½ the Detection Limit used in all calculations. <sup>5</sup> Numbers in parentheses indicate number of plots. <sup>6</sup> 2024 reflects changes made to the expanded monitoring program – 6 plots are now annually monitored and 4 plots were moved to the expanded monitoring program.

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In contrast, average concentrations at the annually monitored plots were lower in 2009 (38%) and 2014 (15%) but higher (13%) in 2019 (Figure 3-5). Although the average Aroclor PCB concentration for the annually monitored plots in 2019 is slightly higher than the expanded monitoring plots, it's not unusual or unexpected since this also occurred during monitoring years prior to 1999 (Figure 3-5). Therefore, it appears that the 10 plots that were annually monitored represent reasonable indicators of the overall results for Aroclor PCBs in the vicinity of the SHTC. Furthermore, the low concentrations of Aroclor PCBs recorded in at the annually monitored and expanded monitoring plots in 2024 are consistent with a declining trend that has been occurring in the vicinity of the SHTC since 2014 (Figure 3-5).

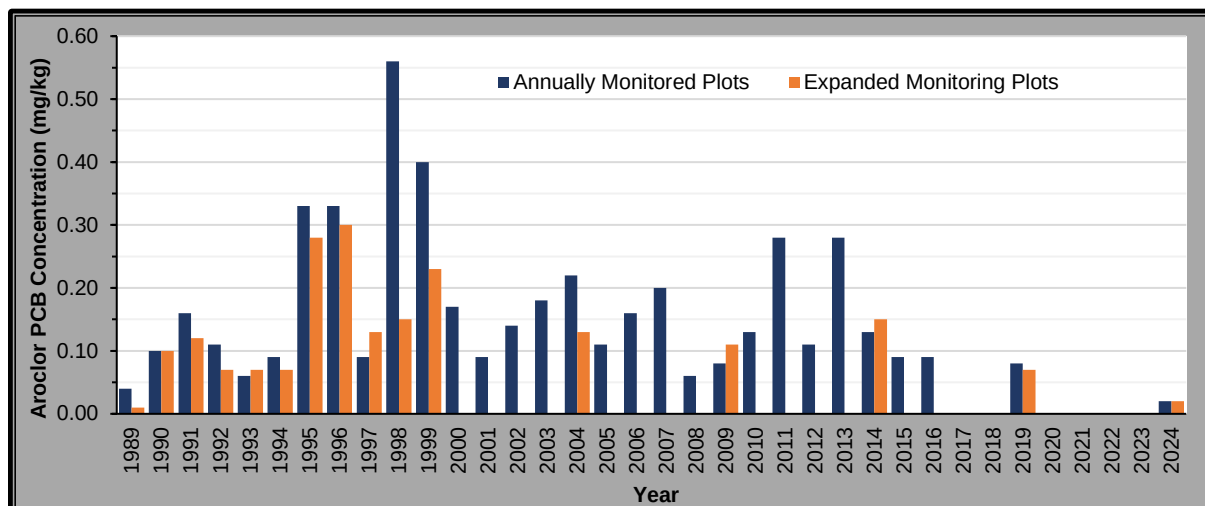


**Figure 3-5.** Comparison of average yearly Aroclor PCB concentrations at annually monitored plots and expanded monitoring plots, 1989 – 2024.

### 3.4.1.1 PCB Congeners

#### Annually Monitored Plots

The average concentration of congener PCBs in vole tissues across the 10 vole tissue collection plots decreased (-8% or -2,700 pg/g) from 32,086 pg/g in May 2023 to 29,386 pg/g in May 2024 (Table 3-18). While congener PCBs decreased at 5 plots, year-over-year increases were recorded at the remaining 5 plots, the highest increases of which occurred at plots 110 (173% or by 19,400 pg/g) and 109 (73% or 28,200 pg/g). Despite these increases, the average 2024 concentration across the 10 plots is 73% lower than the 24-year average (2000 – 2023) for the SHTC study area; the second lowest concentration recorded since 2000 (Table 3-18).

**Table 3-18.** PCB congener concentrations<sup>1</sup> (pg/g) in red-backed voles collected in the SHTC study area, 2000 – 2024.

| Year | Plot <sup>2</sup> |           |           |         |         |        |         |        |                     |       | Averages |
|------|-------------------|-----------|-----------|---------|---------|--------|---------|--------|---------------------|-------|----------|
|      | 11                | 109       | 4         | 110     | 114     | 123    | 117     | 402    | 70                  | 71    |          |
| 2000 | 480,000           | -         | 300,000   | -       | 170,000 | -      | 24,000  | 5,500  | 8,800               | 3,600 | 141,700  |
| 2001 | 169,000           | 563,000   | 163       | 28,800  | 466,000 | 32,100 | 34,600  | 1,960  | 1,440               | 479   | 129,754  |
| 2002 | 627,382           | 819,944   | 642,093   | 16,715  | 495,810 | 53,724 | 108,457 | 5,557  | 1,799               | 393   | 277,187  |
| 2003 | 249,000           | 583,000   | 250,000   | 11,500  | 129,000 | 25,100 | 35,300  | 1,330  | 667                 | 199   | 128,510  |
| 2004 | 70,359            | 1,034,201 | 687,233   | 133,077 | 136,802 | 14,997 | 17,438  | 734    | 1,084               | 406   | 209,633  |
| 2005 | 17,865            | 114,298   | 140,940   | -       | 34,465  | 7,601  | 8,917   | 953    | 837                 | 455   | 36,259   |
| 2006 | 203,545           | 254,766   | 867,215   | 17,820  | 143,851 | 9,468  | 34,099  | 2,944  | 2,363               | 1,273 | 153,734  |
| 2007 | 91,000            | 340,000   | 360,000   | 19,000  | 200,000 | 23,000 | 45,000  | 4,300  | 1,900               | 2,900 | 108,710  |
| 2008 | 100,000           | 99,000    | 410,000   | 17,000  | 85,000  | 23,000 | 69,000  | 47,000 | 7,200               | 3,800 | 86,100   |
| 2009 | 120,000           | 69,400    | 245,000   | 11,000  | 63,200  | 10,200 | 4,500   | 2,070  | 1,980               | 785   | 52,814   |
| 2010 | 192,000           | 98,800    | 351,000   | 43,500  | 294,000 | 19,300 | 74,900  | 3,530  | 1,680               | 795   | 107,951  |
| 2011 | 281,000           | 960,000   | 547,000   | 225,000 | 121,000 | 16,800 | 42,500  | 2,610  | 3,100               | 939   | 219,995  |
| 2012 | 181,000           | 815,000   | 357,000   | 136,000 | 250,000 | 27,400 | 45,900  | 6,150  | 1,860               | 1,280 | 182,159  |
| 2013 | 296,000           | 267,000   | 1,110,000 | 72,400  | 209,000 | 16,400 | 10,400  | 4,050  | 1,480               | 1,440 | 198,817  |
| 2014 | 114,000           | 115,000   | 399,000   | 105,000 | 263,000 | 19,900 | 42,500  | 4,570  | 935                 | 716   | 106,462  |
| 2015 | 111,000           | 97,300    | 386,000   | 39,500  | 82,100  | 13,100 | 18,800  | 2,360  | 1,200               | 377   | 75,174   |
| 2016 | 90,400            | 87,700    | 429,000   | 21,600  | 86,900  | 11,300 | 33,300  | 2,330  | 770                 | 356   | 76,366   |
| 2017 | 110,000           | 96,700    | 317,000   | 21,500  | 91,900  | 12,900 | 16,700  | 2,220  | 934                 | 401   | 67,026   |
| 2018 | 84,200            | 187,000   | 368,000   | 26,400  | 102,000 | 14,300 | 34,500  | 2,470  | 779                 | 888   | 82,054   |
| 2019 | 98,150            | 83,250    | 304,500   | 11,385  | 68,200  | 7,620  | 21,150  | 1,380  | 663                 | 255   | 59,832   |
| 2020 | 63,700            | 60,400    | 161,000   | 7,380   | 45,900  | 12,900 | 17,000  | 1,410  | 533                 | 190   | 37,041   |
| 2021 | 39,500            | 31,600    | 92,500    | 13,200  | 54,600  | 18,800 | 6,540   | 1,200  | 544                 | 217   | 25,870   |
| 2022 | 65,200            | 66,100    | 171,000   | 28,000  | 121,000 | 4,650  | 51,600  | 663    | 471                 | 191   | 50,888   |
| 2023 | 43,500            | 38,700    | 140,000   | 11,200  | 36,100  | 3,510  | 13,100  | 1,710  | 32,900 <sup>3</sup> | 143   | 32,086   |
| 2024 | 25,300            | 66,900    | 116,000   | 30,600  | 40,000  | 6,980  | 6,820   | 518    | 460                 | 278   | 29,386   |

<sup>1</sup> PCB congener concentrations are the sum of the homologues. <sup>2</sup> Order of plots indicate increasing distance from the SHTC (plot 11 [100 m] to plot 71 [21 km]). <sup>3</sup> Re-extraction result = 31,700 pg/g.

As in previous monitoring years, PCB 118 was the dominant toxic PCB congener in voles collected in May 2024, accounting for between 55% (plots 11 and 402) and 66% (plot 110) of the 12 toxic PCB congeners that contribute to PCB TEQ in vole tissues (Table 3-19). PCB 156/157 accounted for an additional 9 (plot 71) - 18% (plot 11), while PCB 105 accounted for between 8 (plot 11) - 12% (plot 123) of the total concentrations. The remaining toxic PCB congeners exhibited low concentration profiles ( $\leq 8.3\%$ ) across all plots (Table 3-9). However, despite having one of the lowest congener concentrations across all plots, PCB 126



contributes the most towards PCB TEQ because of its high TEF (0.1) relative to other PCB congeners (see Table 3-21).

**Table 3-19.** Concentrations of 12 toxic PCB congeners (pg/g) in red-backed voles in the SHTC study area, May 2024.

| PCB Congener         | Plot <sup>1</sup> |               |               |              |              |              |              |           |           |           |
|----------------------|-------------------|---------------|---------------|--------------|--------------|--------------|--------------|-----------|-----------|-----------|
|                      | 11                | 109           | 4             | 110          | 114          | 123          | 117          | 402       | 70        | 71        |
| PCB 77               | 68.6              | 103           | 235           | 49.2         | 79.1         | 14           | 19.4         | 1.5       | 1.2       | 0.79      |
| PCB 81               | 4.7               | 10.70         | 21.0          | 2.50         | 4.8          | 1.40         | 1.50         | 0.23      | 0.31      | 0.23      |
| PCB 105              | 312               | 1030          | 2280          | 539          | 565          | 157          | 116          | 6.8       | 6.2       | 3.94      |
| PCB 114              | 27                | 83.8          | 219           | 59           | 48           | 9.5          | 6.9          | 0.76      | 0.49      | 0.44      |
| PCB 118              | 2200              | 6930          | 11700         | 3170         | 3420         | 773          | 636          | 37.7      | 37.7      | 20        |
| PCB 123 <sup>2</sup> | 3.9               | 11.9          | 33.1          | 13           | 6.8          | 0.95         | 1            | 0.38      | 0.48      | 0.46      |
| PCB 126              | 107               | 330           | 637           | 54.5         | 118          | 27.7         | 21.6         | 1.7       | 2.2       | 1.4       |
| PCB 156/157          | 728               | 1780          | 2950          | 551          | 972          | 179          | 190          | 10        | 7.79      | 3.3       |
| PCB 167              | 329               | 866           | 1360          | 276          | 487          | 87.7         | 89           | 5.27      | 3.3       | 2.3       |
| PCB 169              | 8.7               | 18            | 34.2          | 3.11         | 11.2         | 9.6          | 2            | 1.1       | 0.75      | 0.42      |
| PCB 189              | 198               | 420           | 689           | 115          | 270          | 46.1         | 51.4         | 3.1       | 2.97      | 1.8       |
| <b>Totals</b>        | <b>3,987</b>      | <b>11,583</b> | <b>20,158</b> | <b>4,832</b> | <b>5,982</b> | <b>1,306</b> | <b>1,135</b> | <b>69</b> | <b>63</b> | <b>35</b> |

<sup>1</sup> Order of plots indicate increasing distance from the SHTC (plot 11 [100 m] to plot 71 [21 km]). <sup>2</sup> PCB 123 co-elutes with PCB 107 and PCB 109. <sup>3</sup> < = Not detected, ½ the detection limit was used to calculate totals.

### 3.4.1.2 Toxic Equivalency of PCB Congeners

Between May 2023 and May 2024, PCB TEQ concentrations increased at 4 plots and decreased at the remaining 6 plots (Table 3-20), representing a decrease in average PCB TEQ of 13%. The largest percentage increases occurred at plot 123 which increased by 1.85 pg/g (or 148%), followed by plots 109 (16.20 pg/g or 92%), and 71 (0.06 pg/g or 73%) (Table 3-20). In contrast, PCB TEQs at the remaining plots were among the lowest recorded since 2000 (Table 3-20). The highest PCB TEQ in 2024 among the 10 plots was recorded at plot 4 (65.3 pg/g), which has been the case for all but one year (plot 109 in 2012) since 2000 (Table 3-20). Although the PCB TEQ at plot 4 was the highest recorded in 2024, it represents the second lowest concentration recorded at this plot since 2000. In comparison, PCB TEQ values at plots 402, 70, and 71 were ≤1 pg/g in 2024, continuing to represent the lowest levels recorded among the 10 plots during most previous monitoring years. However, plot 70 (11.80 pg/g) had the highest PCB TEQ on record for this plot in 2023, likely related to the extensive wildfires and smoke that occurred in the Swan Hills region during 2023 (Table 3-20).

**Table 3-20.** TEQ of PCB congeners (pg/g) in red-backed voles captured in the SHTC study area, 2000 - 2024.

| Year               | Plot <sup>1</sup> |       |        |      |                       |       |       |       |                   |       | Averages      |
|--------------------|-------------------|-------|--------|------|-----------------------|-------|-------|-------|-------------------|-------|---------------|
|                    | 11                | 109   | 4      | 110  | 114                   | 123   | 117   | 402   | 70                | 71    |               |
| 2000               | 500               | -     | 670    | -    | 144                   | -     | 33    | 1.3   | 6.7               | 0.06  | <b>193.58</b> |
| 2001               | 108               | 253   | 352    | 18.7 | 252                   | 15    | 23.4  | 0.03  | 0.01              | 0.01  | <b>102.22</b> |
| 2002               | 241               | 346   | 461    | 5.1  | 215                   | 22    | 53    | 0.1   | 0.05              | 0.00  | <b>134.33</b> |
| 2003               | 400               | 385   | 568    | 6.1  | 164                   | 20.4  | 21.2  | 0.5   | 0.0               | 0.00  | <b>156.52</b> |
| 2004               | 94.8              | 120   | 836    | 29.5 | 3.35                  | 11.5  | 11.8  | 0.01  | 0.02              | 0.01  | <b>110.70</b> |
| 2005               | 40.6              | 106   | 267    | -    | 42.2                  | 4.1   | 6.4   | 0.03  | 0.02              | 0.01  | <b>51.82</b>  |
| 2006               | 369.9             | 133.2 | 1039.8 | 12.3 | 96.2                  | 9.5   | 16.7  | 1.36  | 0.04              | 0.02  | <b>167.90</b> |
| 2007               | 119.6             | 411.2 | 614.2  | 7    | 152.1                 | 18.8  | 26.4  | 0.13  | 0.05              | 0.03  | <b>134.95</b> |
| 2008a <sup>2</sup> | 85.49             | 43.97 | 318.3  | 5.65 | 47.07                 | 10.71 | 41.43 | 2.4   | 0.49              | 0.24  | <b>55.58</b>  |
| 2008b <sup>3</sup> | 84.59             | 42.8  | 319.02 | 5.42 | 45.52                 | 10.42 | 40.32 | 2.26  | 0.47              | 0.23  | <b>55.11</b>  |
| 2009               | 139.16            | 51.54 | 279.87 | 5.11 | 36.24                 | 6.96  | 1.71  | 0.55  | 0.52              | 0.26  | <b>52.19</b>  |
| 2010               | 146.72            | 74.46 | 207.07 | 22.1 | 114.18                | 6.05  | 18.93 | 0.02  | 0.01              | 0.00  | <b>58.95</b>  |
| 2011               | 88.3              | 259   | 438    | 115  | 34.9                  | 3.9   | 7.48  | 0.01  | 0.99              | 0.35  | <b>94.79</b>  |
| 2012               | 74.2              | 313   | 294    | 49.3 | 52.2                  | 5.31  | 12.7  | 0.99  | 0.49              | 0.00  | <b>80.22</b>  |
| 2013               | 203               | 224   | 603    | 22.5 | 84.4                  | 5.95  | 3.12  | 0.84  | 0.01              | 0.01  | <b>114.68</b> |
| 2014               | 86.4              | 59.4  | 305    | 115  | 57.6                  | 7.57  | 10.6  | 1.0   | 0.28              | 0.25  | <b>64.31</b>  |
| 2015               | 57.2              | 38.3  | 335    | 15.2 | 38.1                  | 5.85  | 9.32  | 0.83  | 0.56              | 0.15  | <b>50.05</b>  |
| 2016               | 43.5              | 28.4  | 289    | 6    | 26.1                  | 3.9   | 8.62  | 0.54  | 0.30              | 0.13  | <b>40.65</b>  |
| 2017               | 52.2              | 41.8  | 170    | 10.6 | 30.6                  | 4.73  | 5.24  | 0.87  | 0.39              | 0.20  | <b>40.57</b>  |
| 2018               | 39.4              | 98.4  | 232    | 8    | 33.8                  | 4.42  | 11.4  | 0.73  | 0.27              | 0.36  | <b>42.88</b>  |
| 2019               | 45.1              | 45.5  | 198    | 3.84 | 25.5                  | 3.06  | 7.19  | 0.20  | 0.26              | 0.15  | <b>32.88</b>  |
| 2020               | 40.4              | 25.9  | 113    | 2.12 | 18.7                  | 3.7   | 5.6   | 0.51  | 0.24              | 0.07  | <b>21.03</b>  |
| 2021               | 21.5              | 15.8  | 61.1   | 6.15 | 23                    | 7.1   | 2.66  | 0.43  | 0.22              | 0.09  | <b>13.81</b>  |
| 2022               | 25.2              | 23.7  | 111    | 7.62 | 54.4/2.4 <sup>4</sup> | 1.67  | 28.1  | 0.16  | 0.11              | 0.05  | <b>25.20</b>  |
| 2023               | 22.5              | 17.7  | 96.5   | 3.7  | 14.4                  | 1.25  | 3.7   | 0.33  | 11.8 <sup>4</sup> | 0.09  | <b>17.20</b>  |
| 2024               | 11.1              | 33.9  | 65.3   | 5.69 | 12.3                  | 3.10  | 2.26  | 0.205 | 0.24              | 0.154 | <b>14.90</b>  |

<sup>1</sup> Order of plots indicate increasing distance from the SHTC (plot 11 [100 m] to plot 71 [(21 km)]. <sup>2</sup> Between 2000 and 2008a, PCB TEQs calculated based on the WHO (1998). <sup>3</sup> From 2008b and onwards, PCB TEQs calculated based on the WHO (2005). <sup>4</sup> September 2022 result anomaly comparing over-wintered voles (heavier) PC TEQ to young-of-year voles (lighter).

<sup>4</sup> Re-extraction result = 11.9 pg/g.

Historically, PCB TEQ concentrations have typically declined with increasing distance from the SHTC and for most part, the data collected in May 2024 are generally consistent with this trend (Figure 3-6). Overall, the mean PCB TEQ from plots ≤0.7 km from the SHTC (plots 11, 109, 4, 110, 114) in 2024 was 25.66 pg/g, a decrease of 17% from the 30.96 pg/g reported in 2023. In comparison, the mean concentration for plots >0.7 km away (plots 123, 117, 402,

70 and 71) was 1.19 pg/g, a decrease of 65% from the 3.43 pg/g reported in 2022. PCB TEQ concentrations in voles captured within 0.7 km of the SHTC ranged from 5.69 pg/g (plot 110) to 65.30 pg/g (plot 4), while voles captured >0.7 km away had concentrations that ranged from 0.15 pg/g (plot 71) to 3.10 pg/g (plot 123) in 2024 (Figure 3-6).

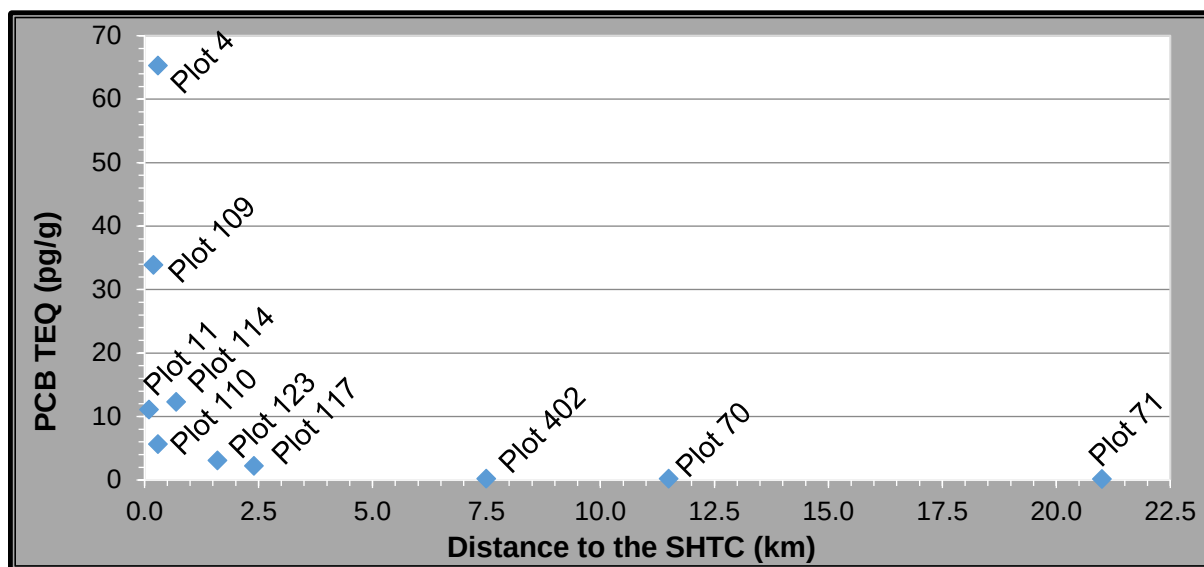


**Figure 3-6.** Relationship between PCB TEQ concentrations (pg/g) in red-backed voles and distance from the SHTC, May 2024.

As in previous monitoring years, PCB 126 contributed the most to PCB TEQ in 2024 because of its higher TEF, representing between 83% (plot 402) and 98% (plot 4) of the totals at the 10 plots (Table 3-21). PCB 169 contributed the second most to PCB TEQ, accounting for between 2% (plots 109, 4, and 110) and 16% (plot 402), while the remaining 8 toxic PCB congeners contributed the least ( $\leq 1.7\%$  of the totals) at the 10 plots (Table 3-21).

**Table 3-21.** TEQ of toxic PCB congeners in red-backed voles (pg/g) collected from the SHTC study area, May 2024.

| PCB Congener         | WHO TEF <sup>1</sup> | Plot <sup>2</sup> |        |        |        |        |        |        |        |        |        |
|----------------------|----------------------|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                      |                      | 11                | 109    | 4      | 110    | 114    | 123    | 117    | 402    | 70     | 71     |
| PCB 77               | 0.0001               | 0.0069            | 0.0103 | 0.0235 | 0.0049 | 0.0079 | 0.0014 | 0.0019 | 0.0002 | 0.0001 | 0.0001 |
| PCB 81               | 0.0003               | 0.0014            | 0.0032 | 0.0063 | 0.0008 | 0.0014 | 0.0004 | 0.0005 | 0.0001 | 0.0001 | 0.0001 |
| PCB 105              | 0.00003              | 0.0094            | 0.0309 | 0.0684 | 0.0162 | 0.0170 | 0.0047 | 0.0035 | 0.0002 | 0.0002 | 0.0001 |
| PCB 114              | 0.00003              | 0.0008            | 0.0025 | 0.0066 | 0.0018 | 0.0014 | 0.0003 | 0.0002 | 0.0000 | 0.0000 | 0.0000 |
| PCB 118              | 0.00003              | 0.0660            | 0.2079 | 0.3510 | 0.0951 | 0.1026 | 0.0232 | 0.0191 | 0.0011 | 0.0011 | 0.0006 |
| PCB 123 <sup>4</sup> | 0.00003              | 0.0001            | 0.0004 | 0.0010 | 0.0004 | 0.0002 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| PCB 126              | 0.1                  | 10.700            | 33.000 | 63.700 | 5.4500 | 11.800 | 2.7700 | 2.1600 | 0.1700 | 0.2200 | 0.1400 |
| PCB 156/157          | 0.00003              | 0.0218            | 0.0534 | 0.0885 | 0.0165 | 0.0292 | 0.0054 | 0.0057 | 0.0003 | 0.0002 | 0.0001 |

| PCB Congener          | WHO TEF <sup>1</sup> | Plot <sup>2</sup> |              |              |             |              |             |             |             |              |             |
|-----------------------|----------------------|-------------------|--------------|--------------|-------------|--------------|-------------|-------------|-------------|--------------|-------------|
|                       |                      | 11                | 109          | 4            | 110         | 114          | 123         | 117         | 402         | 70           | 71          |
| PCB 167               | 0.00003              | 0.0099            | 0.0260       | 0.0408       | 0.0083      | 0.0146       | 0.0026      | 0.0027      | 0.0002      | 0.0001       | 0.0001      |
| PCB 169               | 0.03                 | 0.2610            | 0.5400       | 1.0260       | 0.0933      | 0.3360       | 0.2880      | 0.0600      | 0.0330      | 0.0225       | 0.0126      |
| PCB 189               | 0.00003              | 0.0087            | 0.0073       | 0.0263       | 0.0022      | 0.0073       | 0.0006      | 0.0028      | 0.0002      | 0.0091       | 0.0000      |
| <b>Total PCB TEQs</b> |                      | <b>22.52</b>      | <b>17.72</b> | <b>96.49</b> | <b>3.70</b> | <b>14.43</b> | <b>1.25</b> | <b>3.70</b> | <b>0.33</b> | <b>11.78</b> | <b>0.09</b> |

<sup>1</sup> WHO-TEF: World Health Organization Toxic Equivalency Factor (2005). <sup>2</sup> Order of plots indicates increasing distance from the SHTC (plot 11 [100 m] to plot 71 [21 km]). <sup>3</sup> n.d. = Not detected, ½ the detection limit used to calculate totals. <sup>4</sup> PCB 123 co-elutes with PCB 107 and PCB 109.

### 3.4.2 Dioxins and Furans

#### 3.4.2.1 Dioxin/Furan Congeners

Between May 2023 and May 2024, dioxin/furan concentrations in voles decreased at 6 plots and increased at 4 plots, representing an average decrease of 30.2% (Table 3-22). The largest percentage decreases occurred at plot 11 where the dioxin/furan concentration went from 60.7 pg/g in 2023 to 13.1 pg/g in 2024 (-78% or -47.6 pg/g) followed by plots 117 (-44% or -4.5 pg/g), and 4 (-43% or -41.8 pg/g) (Table 3-22). The highest percentage increases between 2023 and 2024 occurred at plots 71 (181% or 2.4 pg/g) and 123 (89% or 5.4 pg/g) (Table 3-22).

**Table 3-22.** Concentrations of dioxin/furan congeners (pg/g) in red-backed voles collected from the SHTC study area, 2000 - 2024.

| Year | Plot <sup>1</sup> |        |        |                |       |       |       |                   |      |       | Averages       |
|------|-------------------|--------|--------|----------------|-------|-------|-------|-------------------|------|-------|----------------|
|      | 11                | 109    | 4      | 110            | 114   | 123   | 117   | 402               | 70   | 71    |                |
| 2000 | 5,757             | 11,026 | 11,827 | 2,229          | 1,585 | 1,840 | 591   | 22                | 110  | 59    | <b>3,504.6</b> |
| 2001 | 655               | 2,902  | 9,203  | 460            | 960   | 931   | 1,225 | 8                 | 7    | 7     | <b>1,635.8</b> |
| 2002 | 3,862             | 4,684  | 6,349  | 86             | 1,550 | 1,533 | 1,017 | 143               | 23   | 6     | <b>1,925.3</b> |
| 2003 | 2,994             | 3,938  | 9,432  | 112            | 1,874 | 865   | 273   | 5                 | 25   | 4     | <b>1,952.2</b> |
| 2004 | 1,177             | 530    | 6,095  | 323            | 677   | 370   | 99    | n.d. <sup>3</sup> | 1.6  | 0.2   | <b>927.3</b>   |
| 2005 | 581               | 1,280  | 2,005  | - <sup>2</sup> | 344   | 155   | 66    | 2.8               | 11   | 1.3   | <b>444.4</b>   |
| 2006 | 8,043             | 648    | 7,633  | 158            | 488   | 345   | 78    | 15                | 22   | 8     | <b>1,743.8</b> |
| 2007 | 1,142             | 2,167  | 2,546  | 54             | 912   | 716   | 85    | 29                | 26   | 8     | <b>768.5</b>   |
| 2008 | 862               | 373    | 2,316  | 76             | 223   | 266   | 506   | 20                | 36   | 18    | <b>469.6</b>   |
| 2009 | 1,013             | 421    | 1,145  | 44             | 145   | 194   | 26    | 7                 | 31   | 3     | <b>302.9</b>   |
| 2010 | 1,720             | 503    | 434    | 168            | 314   | 43    | 48    | 7                 | 3.4  | <0.2  | <b>324.1</b>   |
| 2011 | 131               | 312    | 1,010  | 438            | 55.8  | 22.9  | 10.2  | 1                 | 1.9  | <0.09 | <b>198.3</b>   |
| 2012 | 171               | 973    | 1,156  | 168            | 139   | 23    | 43.1  | 4.4               | 15.5 | 1     | <b>269.4</b>   |
| 2013 | 651               | 732    | 1,493  | 126            | 183   | 30.6  | 37    | 7.7               | 44.4 | 7.3   | <b>331.2</b>   |

| Year | Plot <sup>1</sup> |       |        |       |       |       |       |      |                    |      | Averages |
|------|-------------------|-------|--------|-------|-------|-------|-------|------|--------------------|------|----------|
|      | 11                | 109   | 4      | 110   | 114   | 123   | 117   | 402  | 70                 | 71   |          |
| 2014 | 329               | 162   | 781    | 386   | 91.8  | 82.3  | 27.8  | 13.7 | 32.8               | 7.5  | 191.4    |
| 2015 | 70                | 12    | 472    | 159   | 45.4  | 36.9  | 32.3  | 6.6  | 23.2               | 3.5  | 86.1     |
| 2016 | 123               | 53    | 488    | 31    | 53.8  | 20.5  | 15.6  | 3.7  | 17.0               | 9.2  | 81.5     |
| 2017 | 49.7              | 66.2  | 309.1  | 24.2  | 26.5  | 15.9  | 8.4   | 4.6  | 13.1               | 4.7  | 52.5     |
| 2018 | 77.6              | 173.7 | 257.6  | 21.8  | 31.1  | 19.6  | 11.2  | 3.4  | 7.1                | 1.2  | 60.4     |
| 2019 | 62.2              | 70.4  | 193.3  | 15.6  | 25.3  | 13.1  | 10.5  | 3.2  | 20.3               | 4.3  | 41.8     |
| 2020 | 66.6              | 26.3  | 111.9  | 8.5   | 14.0  | 8.2   | 4.3   | 3.8  | 6.7                | 1.9  | 25.2     |
| 2021 | 27.39             | 17.11 | 37.45  | 11.02 | 15.25 | 6.17  | 9.61  | 5.72 | 11.91              | 3.02 | 14.5     |
| 2022 | 19.66             | 18.27 | 135.15 | 14.17 | 41.74 | 5.81  | 27.17 | 1.34 | 11.85              | 8.44 | 28.4     |
| 2023 | 60.70             | 26.41 | 98.15  | 10.00 | 11.82 | 6.07  | 10.23 | 3.17 | 13.29 <sup>4</sup> | 1.55 | 24.1     |
| 2024 | 13.12             | 31.54 | 56.36  | 12.16 | 10.58 | 11.44 | 5.73  | 2.13 | 8.91               | 3.65 | 16.9     |

<sup>1</sup> Order of plots indicate increasing distance from the SHTC (Plot 11 [100 m] to Plot 71 [21 km]). <sup>2</sup> No animals were collected for tissue samples. <sup>3</sup> n.d. or < = Not detected, ½ the detection limit used to calculate averages. <sup>4</sup> Re-extraction result = 14.7 pg/g.

Congener 2378 TCDF was the dominant dioxin/furan at 7 of the 10 plots in 2024, accounting for between 15% (plot 117) to 27% (plot 110) of the total concentrations at these plots (Table 3-23). In comparison, the dominant congener at plots 11, 109, 4, 110, 114, and 123 was 23478 PeCDF, accounting for between 15% - 23% of the total concentrations. Other relatively dominant congeners included, OCDD which accounted for between 16% - 23% of the concentrations at plots 117, 402, 70 and 71, and 1234678 HpCDD which accounted for between 16% and 20% at plots 402, 70, and 71 (Table 3-23).

**Table 3-23.** Concentrations (pg/g) for individual dioxin/furan congeners in red-backed voles collected from the SHTC study area, May 2024.

| Dioxin/Furan Congener | Plot <sup>1</sup> |       |        |       |       |       |       |       |       |       |
|-----------------------|-------------------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
|                       | 11                | 109   | 4      | 110   | 114   | 123   | 117   | 402   | 70    | 71    |
| 2378 TCDD             | 0.082             | 0.123 | 0.226  | 0.074 | 0.074 | 0.074 | 0.039 | 0.057 | 0.240 | 0.066 |
| 12378 PeCDD           | 0.754             | 1.020 | 1.820  | 0.490 | 0.470 | 0.600 | 0.330 | 0.120 | 1.590 | 0.460 |
| 123478 HxCDD          | 0.300             | 0.504 | 0.793  | 0.321 | 0.150 | 0.360 | 0.170 | 0.064 | 0.526 | 0.160 |
| 123678 HxCDD          | 0.550             | 0.880 | 1.480  | 0.480 | 0.350 | 0.571 | 0.310 | 0.154 | 0.874 | 0.280 |
| 123789 HxCDD          | 0.240             | 0.480 | 0.660  | 0.220 | 0.220 | 0.192 | 0.130 | 0.070 | 0.380 | 0.190 |
| 1234678 HpCDD         | 0.760             | 1.890 | 3.630  | 1.200 | 1.150 | 1.100 | 0.420 | 0.330 | 1.410 | 0.721 |
| OCDD                  | 1.290             | 1.730 | 4.270  | 1.270 | 1.200 | 1.120 | 0.920 | 0.480 | 1.490 | 0.660 |
| 2378 TCDF             | 2.000             | 6.070 | 13.200 | 3.320 | 2.160 | 1.930 | 0.830 | 0.220 | 0.386 | 0.094 |
| 12378 PeCDF           | 1.340             | 3.830 | 4.960  | 0.880 | 1.010 | 0.870 | 0.520 | 0.140 | 0.410 | 0.212 |

| Dioxin/Furan Congener | Plot <sup>1</sup> |              |              |              |              |              |             |             |             |             |
|-----------------------|-------------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|-------------|-------------|
|                       | 11                | 109          | 4            | 110          | 114          | 123          | 117         | 402         | 70          | 71          |
| 23478 PeCDF           | 2.630             | 6.850        | 12.900       | 2.000        | 1.620        | 2.680        | 0.730       | 0.096       | 0.430       | 0.150       |
| 123478 HxCDF          | 0.650             | 1.450        | 1.840        | 0.411        | 0.320        | 0.424        | 0.250       | 0.052       | 0.220       | 0.092       |
| 123678 HxCDF          | 0.836             | 1.490        | 2.220        | 0.382        | 0.470        | 0.430        | 0.170       | 0.090       | 0.300       | 0.130       |
| 123789 HxCDF          | 0.034             | 0.075        | 0.038        | 0.033        | 0.080        | 0.021        | 0.075       | 0.031       | 0.034       | 0.076       |
| 234678 HxCDF          | 0.762             | 2.680        | 4.460        | 0.521        | 0.530        | 0.590        | 0.360       | 0.026       | 0.120       | 0.089       |
| 1234678 HpCDF         | 0.587             | 1.920        | 2.940        | 0.427        | 0.440        | 0.370        | 0.220       | 0.100       | 0.365       | 0.160       |
| 1234789 HpCDF         | 0.100             | 0.160        | 0.280        | 0.028        | 0.121        | 0.034        | 0.080       | 0.020       | 0.036       | 0.065       |
| OCDF                  | 0.210             | 0.390        | 0.640        | 0.100        | 0.210        | 0.070        | 0.180       | 0.082       | 0.095       | 0.042       |
| <b>Totals</b>         | <b>13.12</b>      | <b>31.54</b> | <b>56.36</b> | <b>12.16</b> | <b>10.58</b> | <b>11.44</b> | <b>5.73</b> | <b>2.13</b> | <b>8.91</b> | <b>3.65</b> |

<sup>1</sup> Order of plots indicate increasing distance from the SHTC (plot 11 [100 m] to plot 71 [21 km]). <sup>2</sup> < = Not detected, ½ the detection limit used.

### 3.4.2.2 Toxic Equivalency of Dioxin/Furan Congeners

Dioxin/furan TEQ concentrations only increased at 3 plots and decreased at 7 plots between May 2023 and May 2024 (Table 3-24). This represented an average year-over-year decrease of -28.9% (or -1.10 pg/g) across the 10 plots (from 3.80 pg/g in 2023 to 2.70 pg/g in 2024), the second lowest average concentration recorded since 2000 (Table 3-24). The largest percentage decreases occurred at plot 11 (-75% or -6.50 pg/g), plot 4 (-44% or -6.80 pg/g), and plot 117 (-37% or 0.50 pg/g) while the largest increases occurred at plots 71 (155% or 0.42 pg/g) and 123 (70% or 0.81 pg/g) (Table 3-14). Apart from plot 109 which experienced a slight increase (0.44 pg/g) between 2023 and 2024, the remaining 4 plots closest to the SHTC were among the lowest levels recorded since 2000 (Table 3-24). Overall, dioxin/furan TEQs have, for the most part, been declining steadily in the SHTC study area from 2006 (646.0 pg/g) to 2024 (2.70 pg/g) (Table 3-24).

**Table 3-24.** TEQ of dioxin/furan congeners (pg/g) in red-backed voles collected from the SHTC study area, 2000 - 2024.

| Year               | Plot <sup>1</sup> |       |       |                |     |      |      |      |     |      | Averages       |
|--------------------|-------------------|-------|-------|----------------|-----|------|------|------|-----|------|----------------|
|                    | 11                | 109   | 4     | 110            | 114 | 123  | 117  | 402  | 70  | 71   |                |
| 2000               | 2,200             | 4,200 | 4,900 | 820            | 600 | 700  | 230  | 7.2  | 37  | 20   | <b>1,371.4</b> |
| 2001               | 230               | 1,100 | 3,800 | 160            | 340 | 350  | 440  | 0.76 | 2.9 | 1.2  | <b>642.5</b>   |
| 2002               | 1,460             | 1,750 | 2,450 | 26.4           | 553 | 593  | 391  | 19.8 | 2.6 | 1.6  | <b>724.7</b>   |
| 2003               | 1,200             | 1,490 | 3920  | 28.6           | 682 | 321  | 89.2 | 0.7  | 3.1 | 0.3  | <b>773.5</b>   |
| 2004               | 416               | 187   | 2,190 | 99.5           | 262 | 126  | 31.7 | 0.79 | 1.5 | 0.27 | <b>331.5</b>   |
| 2005               | 187               | 465   | 754   | - <sup>2</sup> | 104 | 48.8 | 17.5 | 0.81 | 2   | 0.43 | <b>157.8</b>   |
| 2006               | 3,071             | 219   | 2,851 | 32.5           | 154 | 109  | 19.2 | 2.2  | 0.5 | 1.1  | <b>646.0</b>   |
| 2007               | 421               | 765   | 885   | 14             | 283 | 274  | 21   | 4    | 3   | 2    | <b>267.2</b>   |
| 2008a <sup>3</sup> | 310               | 110   | 830   | 14             | 58  | 87   | 44   | 3.6  | 3.4 | 0.92 | <b>146.1</b>   |

| Year               | Plot <sup>1</sup> |       |       |       |                        |      |      |       |                   |       | Averages    |
|--------------------|-------------------|-------|-------|-------|------------------------|------|------|-------|-------------------|-------|-------------|
|                    | 11                | 109   | 4     | 110   | 114                    | 123  | 117  | 402   | 70                | 71    |             |
| 2008b <sup>4</sup> | 200               | 71    | 530   | 11    | 40                     | 56   | 30   | 2.8   | 4.5               | 0.94  | <b>94.6</b> |
| 2009               | 217               | 81    | 241   | 7     | 24                     | 36   | 3    | 1     | 2                 | 0     | <b>61.2</b> |
| 2010               | 366               | 100   | 88    | 32    | 58                     | 8    | 7    | 1     | 3                 | 0     | <b>66.3</b> |
| 2011               | 19.3              | 53.4  | 234   | 104   | 8.6                    | 4.5  | 2.2  | 1.3   | 2                 | 0.4   | <b>43.0</b> |
| 2012               | 21.2              | 185.0 | 223.6 | 27.56 | 19.69                  | 4.48 | 6.84 | 0.76  | 2.94              | 0.18  | <b>49.2</b> |
| 2013               | 121.2             | 129.5 | 197.7 | 17    | 20.3                   | 4    | 3.8  | 0.5   | 4.8               | 1.4   | <b>50.0</b> |
| 2014               | 53.9              | 22.2  | 133   | 81.3  | 13.0                   | 12.1 | 2.92 | 1.4   | 2.81              | 0.803 | <b>32.3</b> |
| 2015               | 7.26              | 1.62  | 75.9  | 19.2  | 4.66                   | 5.01 | 4.04 | 0.565 | 2.59              | 0.378 | <b>12.1</b> |
| 2016               | 14.8              | 6.54  | 80.8  | 3.4   | 5.59                   | 2.79 | 1.73 | 0.488 | 1.97              | 0.745 | <b>11.9</b> |
| 2017               | 5.38              | 8.71  | 46.8  | 4.27  | 3.03                   | 1.99 | 0.70 | 0.53  | 1.94              | 0.55  | <b>7.4</b>  |
| 2018               | 10.8              | 25.9  | 35.9  | 3.15  | 3.16                   | 3.42 | 1.4  | 0.79  | 1.55              | 0.31  | <b>8.6</b>  |
| 2019               | 9.86              | 10.9  | 33.7  | 2.54  | 3.7                    | 2.19 | 1.39 | 0.435 | 3.05              | 0.65  | <b>6.8</b>  |
| 2020               | 10.2              | 4.32  | 19.0  | 1.43  | 2.1                    | 1.39 | 0.70 | 0.516 | 1.65              | 0.364 | <b>4.2</b>  |
| 2021               | 4.44              | 2.43  | 5.79  | 1.5   | 1.65                   | 0.77 | 1.33 | 0.461 | 1.69              | 0.45  | <b>2.1</b>  |
| 2022               | 3.03              | 2.86  | 12.8  | 2.19  | 5.81/0.27 <sup>5</sup> | 1.04 | 3.97 | 0.201 | 2.04              | 0.284 | <b>3.4</b>  |
| 2023               | 8.72              | 4.28  | 15.4  | 1.91  | 2.02                   | 1.16 | 1.34 | 0.557 | 2.39 <sup>6</sup> | 0.274 | <b>3.8</b>  |
| 2024               | 2.22              | 4.72  | 8.6   | 1.78  | 1.51                   | 1.97 | 0.84 | 0.285 | 2.27              | 0.698 | <b>2.7</b>  |

<sup>1</sup> Order of plots indicate increasing distance from the SHTC (plot 11 [100 m] to plot 71 [21 km]). <sup>2</sup> No animals were collected for tissue samples. <sup>3</sup> Between 2000 and 2008a, dioxin and furan TEQs calculated based on NATO I-TEFs (1990). <sup>4</sup> From 2008b and onwards, dioxin and furan TEQs calculated based on the WHO (2005). <sup>5</sup> September 2022 result anomaly comparing over-wintered voles (heavier) PC TEQ to young-of year voles (lighter). <sup>6</sup> Re-extraction result = 1.93 pg/g.

As with PCB TEQs, dioxin/furan TEQ concentrations in voles generally declined with increasing distance from the SHTC in May 2024 (Figure 3-7). The mean dioxin/furan TEQ from plots ≤0.7 km from the SHTC (plots 11, 109, 4, 110, 114) in 2024 was 3.77 pg/g (a decrease of 42% from the 6.47 pg/g reported in 2023), whereas the mean concentration for plots >0.7 km away (plots 123, 117, 402, 70 and 71) was 1.21 pg/g (an increase of 6% from the 1.14 pg/g reported in 2023). Dioxin/furan TEQs in voles captured within 0.7 km of the SHTC ranged from 1.51 pg/g (plot 114) to 8.60 pg/g (plot 4), while voles captured >0.7 km away had concentrations that ranged from 0.29 pg/g (plot 402) to 2.27 pg/g (plot 70) in 2024 (Figure 3-7).

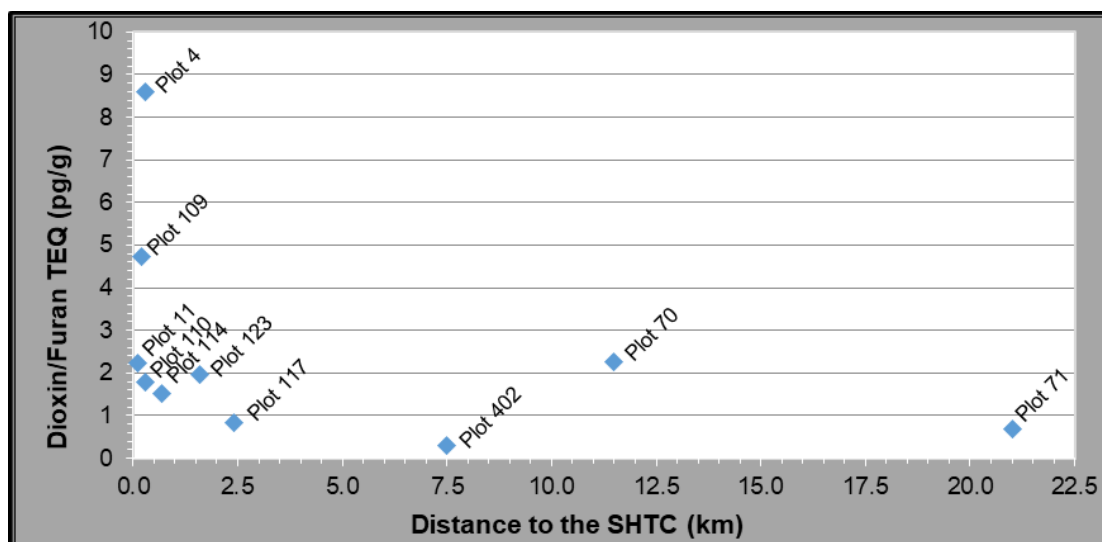


**Figure 3-7.** Distribution of dioxin/furan TEQs (pg/g) in relation to distance, May 2024.

The congener 12378 PeCDD was the largest contributor to total dioxin/furan TEQs at all 10 plots, ranging from 21% at plot 4 to 70% at plot 70 (Table 3-15). The congener 23478 PeCDF was also a large contributor at 7 of the 10 plots in the SHTC study area, where it accounted for between 26% (plot 117) and 45% (plot 4) of the total dioxin/furan TEQs in May 2023 (Table 3-25). The remaining individual dioxin/furan TEQs accounted for  $\leq 19\%$  of the total concentrations at the 10 plots in 2024.

**Table 3-25.** TEQ of individual dioxin/furan congeners (pg/g) in red-backed voles, May 2024.

| Congener      | WHO TEF <sup>1</sup> | Plot <sup>2</sup> |       |       |       |       |       |       |       |       |       |
|---------------|----------------------|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|               |                      | 11                | 109   | 4     | 110   | 114   | 123   | 117   | 402   | 70    | 71    |
| 2378 TeCDD    | 1                    | 0.082             | 0.123 | 0.226 | 0.074 | 0.074 | 0.074 | 0.039 | 0.057 | 0.240 | 0.066 |
| 12378 PeCDD   | 1                    | 0.754             | 1.020 | 1.820 | 0.490 | 0.470 | 0.600 | 0.330 | 0.120 | 1.590 | 0.460 |
| 123478 HxCDD  | 0.1                  | 0.030             | 0.050 | 0.079 | 0.032 | 0.015 | 0.036 | 0.017 | 0.006 | 0.053 | 0.016 |
| 123678 HxCDD  | 0.1                  | 0.055             | 0.088 | 0.148 | 0.048 | 0.035 | 0.057 | 0.031 | 0.015 | 0.087 | 0.028 |
| 123789 HxCDD  | 0.1                  | 0.024             | 0.048 | 0.066 | 0.022 | 0.022 | 0.019 | 0.013 | 0.007 | 0.038 | 0.019 |
| 1234678 HpCDD | 0.01                 | 0.008             | 0.019 | 0.036 | 0.012 | 0.012 | 0.011 | 0.004 | 0.003 | 0.014 | 0.007 |
| OCDD          | 0.0003               | 0.000             | 0.001 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 2378 TeCDF    | 0.1                  | 0.200             | 0.607 | 1.320 | 0.332 | 0.216 | 0.193 | 0.083 | 0.022 | 0.039 | 0.009 |
| 12378 PeCDF   | 0.03                 | 0.040             | 0.115 | 0.149 | 0.026 | 0.030 | 0.026 | 0.016 | 0.004 | 0.012 | 0.006 |
| 23478 PeCDF   | 0.3                  | 0.789             | 2.055 | 3.870 | 0.600 | 0.486 | 0.804 | 0.219 | 0.029 | 0.129 | 0.045 |
| 123478 HxCDF  | 0.1                  | 0.065             | 0.145 | 0.184 | 0.041 | 0.032 | 0.042 | 0.025 | 0.005 | 0.022 | 0.009 |
| 123678 HxCDF  | 0.1                  | 0.084             | 0.149 | 0.222 | 0.038 | 0.047 | 0.043 | 0.017 | 0.009 | 0.030 | 0.013 |
| 123789 HxCDF  | 0.1                  | 0.003             | 0.008 | 0.004 | 0.003 | 0.008 | 0.002 | 0.008 | 0.003 | 0.003 | 0.008 |
| 234678 HxCDF  | 0.1                  | 0.076             | 0.268 | 0.446 | 0.052 | 0.053 | 0.059 | 0.036 | 0.003 | 0.012 | 0.009 |



| Congener                       | WHO TEF <sup>1</sup> | Plot <sup>2</sup> |       |       |       |       |       |       |       |       |       |
|--------------------------------|----------------------|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                                |                      | 11                | 109   | 4     | 110   | 114   | 123   | 117   | 402   | 70    | 71    |
| 1234678 HpCDF                  | 0.01                 | 0.006             | 0.019 | 0.029 | 0.004 | 0.004 | 0.004 | 0.002 | 0.001 | 0.004 | 0.002 |
| 1234789 HpCDF                  | 0.01                 | 0.001             | 0.002 | 0.003 | 0.000 | 0.001 | 0.000 | 0.001 | 0.000 | 0.000 | 0.001 |
| OCDF                           | 0.0003               | 0.000             | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| <b>Total Dioxin/Furan TEQs</b> |                      | 2.217             | 4.716 | 8.604 | 1.776 | 1.506 | 1.971 | 0.841 | 0.285 | 2.274 | 0.698 |

<sup>1</sup> WHO-TEF: World Health Organization Toxic Equivalency Factor (2005). <sup>2</sup> Order of plots indicate increasing distance from the SHTC (plot 11 [100 m] to plot 71 [21 km]). <sup>3</sup> n.d. – Not detected, ½ the detection limit used to calculate totals.

### 3.4.3 Total TEQs

#### 3.4.3.1 Total TEQ in Relation to Plot and Monitoring Year

PCB TEQs and dioxin/furan TEQs decreased at 6 and increased at 4 plots between 2023 and 2024, resulting in an average 24% decrease (-5.06 pg/g) in total TEQs (PCB TEQs + dioxin/furan TEQs) from 21.05 pg/g to 15.99 pg/g across the 10 plots (Table 3-26). The largest percentage decreases occurred at plot 70 (-82% or -11.69 pg/g) and plot 11 (-59% or 19.00 pg/g) while the largest increases were recorded at plots 123 (150% or 3.00 pg/g) and 71 (130% or 0.48 pg/g) (Table 3-26).

Overall, PCB TEQs comprised about 60% of the total TEQs in red-backed voles while dioxin/furan TEQs accounted for 40% across the 10 plots in 2024 (Table 3-26). The percentage contribution of PCB TEQ to total TEQ in 2024 was higher than what has been recorded across all plots between 2000 and 2023 (mean = 50%) but has varied from a low of 0% at plots 109, 110, 123, 70 and 71 to a high of 96% at plot 109 over the same historical period. When compared to distance from the SHTC, PCB TEQ accounted for 53% of the total TEQ at plots located ≤2 km and 33% of the total TEQ at plots >2km from the SHTC.

**Table 3-26.** Total TEQ concentrations (pg/g) in red-backed voles collected from the SHTC study area, 2000 - 2024.

| Plot <sup>1</sup> | Year    | PCB TEQ <sup>2</sup> | Dioxin/Furan TEQ <sup>3</sup> | Total TEQ   | Year | PCB TEQ <sup>2</sup> | Dioxin/Furan TEQ <sup>3</sup> | Total TEQ  |
|-------------------|---------|----------------------|-------------------------------|-------------|------|----------------------|-------------------------------|------------|
| 11                | 2000    | 500                  | 2200                          | <b>2700</b> | 2013 | 203                  | 121                           | <b>324</b> |
|                   | 2001    | 108                  | 230                           | <b>338</b>  | 2014 | 86                   | 54                            | <b>140</b> |
|                   | 2002    | 241                  | 1460                          | <b>1701</b> | 2015 | 57                   | 7                             | <b>64</b>  |
|                   | 2003    | 400                  | 1200                          | <b>1600</b> | 2016 | 44                   | 15                            | <b>59</b>  |
|                   | 2004    | 95                   | 416                           | <b>511</b>  | 2017 | 52.2                 | 5                             | <b>58</b>  |
|                   | 2005    | 41                   | 187                           | <b>228</b>  | 2018 | 39                   | 11                            | <b>50</b>  |
|                   | 2006    | 370                  | 3071                          | <b>3441</b> | 2019 | 45                   | 10                            | <b>55</b>  |
|                   | 2007    | 123                  | 421                           | <b>544</b>  | 2020 | 40                   | 10                            | <b>50</b>  |
|                   | 2008a/b | 85                   | 200                           | <b>285</b>  | 2021 | 21.5                 | 4                             | <b>26</b>  |
|                   | 2009    | 140                  | 217                           | <b>357</b>  | 2022 | 25.2                 | 3                             | <b>28</b>  |

| Plot <sup>1</sup> | Year    | PCB<br>TEQ <sup>2</sup> | Dioxin/Furan<br>TEQ <sup>3</sup> | Total<br>TEQ | Year | PCB<br>TEQ <sup>2</sup> | Dioxin/Furan<br>TEQ <sup>3</sup> | Total<br>TEQ |
|-------------------|---------|-------------------------|----------------------------------|--------------|------|-------------------------|----------------------------------|--------------|
|                   | 2010    | 147                     | 366                              | <b>513</b>   | 2023 | 23                      | 9                                | <b>32</b>    |
|                   | 2011    | 88                      | 19                               | <b>107</b>   | 2024 | 11                      | 2                                | <b>13</b>    |
|                   | 2012    | 74                      | 21                               | <b>95</b>    | -    | -                       | -                                | -            |
| 109               | 2000    | -                       | 4200                             | <b>4200</b>  | 2013 | 224                     | 130                              | <b>354</b>   |
|                   | 2001    | 253                     | 1100                             | <b>1353</b>  | 2014 | 59                      | 22                               | <b>81</b>    |
|                   | 2002    | 346                     | 1750                             | <b>2096</b>  | 2015 | 38                      | 2                                | <b>40</b>    |
|                   | 2003    | 385                     | 1490                             | <b>1875</b>  | 2016 | 28                      | 7                                | <b>35</b>    |
|                   | 2004    | 120                     | 187                              | <b>307</b>   | 2017 | 42                      | 9                                | <b>51</b>    |
|                   | 2005    | 106                     | 465                              | <b>571</b>   | 2018 | 98                      | 26                               | <b>124</b>   |
|                   | 2006    | 133                     | 219                              | <b>352</b>   | 2019 | 46                      | 11                               | <b>57</b>    |
|                   | 2007    | 410                     | 765                              | <b>1175</b>  | 2020 | 26                      | 4                                | <b>30</b>    |
|                   | 2008a/b | 43                      | 71                               | <b>114</b>   | 2021 | 16                      | 2                                | <b>18</b>    |
|                   | 2009    | 52                      | 81                               | <b>133</b>   | 2022 | 24                      | 3                                | <b>27</b>    |
|                   | 2010    | 75                      | 100                              | <b>175</b>   | 2023 | 18                      | 4                                | <b>22</b>    |
|                   | 2011    | 259                     | 53                               | <b>312</b>   | 2024 | 34                      | 5                                | <b>39</b>    |
|                   | 2012    | 313                     | 185                              | <b>498</b>   | -    | -                       | -                                | -            |
| 4                 | 2000    | 670                     | 4900                             | <b>5570</b>  | 2013 | 603                     | 198                              | <b>801</b>   |
|                   | 2001    | 352                     | 3800                             | <b>4152</b>  | 2014 | 305                     | 133                              | <b>438</b>   |
|                   | 2002    | 461                     | 2450                             | <b>2911</b>  | 2015 | 335                     | 76                               | <b>411</b>   |
|                   | 2003    | 568                     | 3920                             | <b>4488</b>  | 2016 | 289                     | 81                               | <b>370</b>   |
|                   | 2004    | 836                     | 2190                             | <b>3026</b>  | 2017 | 170                     | 47                               | <b>217</b>   |
|                   | 2005    | 267                     | 754                              | <b>1021</b>  | 2018 | 232                     | 36                               | <b>268</b>   |
|                   | 2006    | 1040                    | 2851                             | <b>3891</b>  | 2019 | 198                     | 34                               | <b>232</b>   |
|                   | 2007    | 614                     | 885                              | <b>1499</b>  | 2020 | 113                     | 19                               | <b>132</b>   |
|                   | 2008a/b | 319                     | 530                              | <b>849</b>   | 2021 | 61                      | 6                                | <b>67</b>    |
|                   | 2009    | 283                     | 241                              | <b>524</b>   | 2022 | 111                     | 13                               | <b>124</b>   |
|                   | 2010    | 207                     | 88                               | <b>295</b>   | 2023 | 97                      | 15                               | <b>112</b>   |
|                   | 2011    | 438                     | 234                              | <b>672</b>   | 2024 | 65                      | 9                                | <b>74</b>    |
|                   | 2012    | 294                     | 223.6                            | <b>518</b>   | -    | -                       | -                                | -            |
| 110               | 2000    | -                       | 820                              | <b>820</b>   | 2013 | 23                      | 17                               | <b>40</b>    |
|                   | 2001    | 19                      | 160                              | <b>179</b>   | 2014 | 115                     | 81                               | <b>196</b>   |
|                   | 2002    | 5                       | 26                               | <b>31</b>    | 2015 | 15                      | 19                               | <b>34</b>    |
|                   | 2003    | 6                       | 29                               | <b>35</b>    | 2016 | 6                       | 3                                | <b>9</b>     |
|                   | 2004    | 30                      | 100                              | <b>130</b>   | 2017 | 11                      | 4                                | <b>15</b>    |
|                   | 2005    | -                       | -                                | <b>0</b>     | 2018 | 8                       | 3                                | <b>11</b>    |
|                   | 2006    | 12                      | 33                               | <b>45</b>    | 2019 | 4                       | 3                                | <b>7</b>     |
|                   | 2007    | 7                       | 14                               | <b>21</b>    | 2020 | 2                       | 1                                | <b>3</b>     |
|                   | 2008a/b | 5                       | 11                               | <b>16</b>    | 2021 | 6                       | 2                                | <b>8</b>     |
|                   | 2009    | 5                       | 7                                | <b>12</b>    | 2022 | 7                       | 2                                | <b>9</b>     |

| Plot <sup>1</sup> | Year    | PCB<br>TEQ <sup>2</sup> | Dioxin/Furan<br>TEQ <sup>3</sup> | Total<br>TEQ | Year | PCB<br>TEQ <sup>2</sup> | Dioxin/Furan<br>TEQ <sup>3</sup> | Total<br>TEQ |
|-------------------|---------|-------------------------|----------------------------------|--------------|------|-------------------------|----------------------------------|--------------|
|                   | 2010    | 22                      | 32                               | <b>54</b>    | 2023 | 4                       | 2                                | <b>6</b>     |
|                   | 2011    | 115                     | 104                              | <b>219</b>   | 2024 | 6                       | 2                                | <b>8</b>     |
|                   | 2012    | 49                      | 27.56                            | <b>77</b>    | -    | -                       | -                                | -            |
| 114               | 2000    | 144                     | 600                              | <b>744</b>   | 2013 | 84                      | 20                               | <b>104</b>   |
|                   | 2001    | 252                     | 340                              | <b>592</b>   | 2014 | 58                      | 13                               | <b>71</b>    |
|                   | 2002    | 215                     | 553                              | <b>768</b>   | 2015 | 38                      | 5                                | <b>43</b>    |
|                   | 2003    | 164                     | 682                              | <b>846</b>   | 2016 | 26                      | 6                                | <b>32</b>    |
|                   | 2004    | 3                       | 262                              | <b>265</b>   | 2017 | 31                      | 3                                | <b>34</b>    |
|                   | 2005    | 42                      | 104                              | <b>146</b>   | 2018 | 34                      | 3                                | <b>37</b>    |
|                   | 2006    | 96                      | 154                              | <b>250</b>   | 2019 | 26                      | 4                                | <b>30</b>    |
|                   | 2007    | 147                     | 283                              | <b>430</b>   | 2020 | 19                      | 2                                | <b>21</b>    |
|                   | 2008a/b | 46                      | 40                               | <b>86</b>    | 2021 | 23                      | 2                                | <b>25</b>    |
|                   | 2009    | 37                      | 24                               | <b>61</b>    | 2022 | 54                      | 6                                | <b>60</b>    |
|                   | 2010    | 114                     | 58                               | <b>172</b>   | 2023 | 14                      | 2                                | <b>16</b>    |
|                   | 2011    | 35                      | 9                                | <b>44</b>    | 2024 | 12                      | 2                                | <b>14</b>    |
|                   | 2012    | 52                      | 19.69                            | <b>72</b>    | -    | -                       | -                                | -            |
| 123               | 2000    | -                       | 700                              | <b>700</b>   | 2013 | 6                       | 4                                | <b>10</b>    |
|                   | 2001    | 15                      | 350                              | <b>365</b>   | 2014 | 8                       | 12                               | <b>20</b>    |
|                   | 2002    | 22                      | 593                              | <b>615</b>   | 2015 | 6                       | 5                                | <b>11</b>    |
|                   | 2003    | 20                      | 321                              | <b>341</b>   | 2016 | 4                       | 3                                | <b>7</b>     |
|                   | 2004    | 12                      | 126                              | <b>138</b>   | 2017 | 5                       | 2                                | <b>7</b>     |
|                   | 2005    | 4                       | 49                               | <b>53</b>    | 2018 | 4                       | 3                                | <b>7</b>     |
|                   | 2006    | 9                       | 109                              | <b>118</b>   | 2019 | 3                       | 2                                | <b>5</b>     |
|                   | 2007    | 19                      | 274                              | <b>293</b>   | 2020 | 4                       | 1                                | <b>5</b>     |
|                   | 2008a/b | 10                      | 56                               | <b>66</b>    | 2021 | 7                       | 1                                | <b>8</b>     |
|                   | 2009    | 7                       | 36                               | <b>43</b>    | 2022 | 2                       | 1                                | <b>3</b>     |
|                   | 2010    | 6                       | 8                                | <b>14</b>    | 2023 | 1                       | 1                                | <b>2</b>     |
|                   | 2011    | 4                       | 5                                | <b>9</b>     | 2024 | 3                       | 2                                | <b>5</b>     |
|                   | 2012    | 5                       | 4.48                             | <b>9</b>     | -    | -                       | -                                | -            |
| 117               | 2000    | 33                      | 230                              | <b>263</b>   | 2013 | 3                       | 4                                | <b>7</b>     |
|                   | 2001    | 23                      | 440                              | <b>463</b>   | 2014 | 11                      | 3                                | <b>14</b>    |
|                   | 2002    | 53                      | 391                              | <b>444</b>   | 2015 | 9                       | 4                                | <b>13</b>    |
|                   | 2003    | 21                      | 89                               | <b>110</b>   | 2016 | 9                       | 2                                | <b>11</b>    |
|                   | 2004    | 12                      | 32                               | <b>44</b>    | 2017 | 5                       | 1                                | <b>6</b>     |
|                   | 2005    | 6                       | 18                               | <b>24</b>    | 2018 | 11                      | 1                                | <b>12</b>    |
|                   | 2006    | 17                      | 19                               | <b>36</b>    | 2019 | 7                       | 1                                | <b>8</b>     |
|                   | 2007    | 27                      | 21                               | <b>48</b>    | 2020 | 6                       | 1                                | <b>7</b>     |
|                   | 2008a/b | 40                      | 30                               | <b>70</b>    | 2021 | 3                       | 1                                | <b>4</b>     |
|                   | 2009    | 2                       | 3                                | <b>5</b>     | 2022 | 28                      | 4                                | <b>32</b>    |

| Plot <sup>1</sup> | Year    | PCB<br>TEQ <sup>2</sup> | Dioxin/Furan<br>TEQ <sup>3</sup> | Total<br>TEQ | Year | PCB<br>TEQ <sup>2</sup> | Dioxin/Furan<br>TEQ <sup>3</sup> | Total<br>TEQ |
|-------------------|---------|-------------------------|----------------------------------|--------------|------|-------------------------|----------------------------------|--------------|
|                   | 2010    | 19                      | 7                                | <b>26</b>    | 2023 | 4                       | 1                                | <b>5</b>     |
|                   | 2011    | 8                       | 2                                | <b>10</b>    | 2024 | 2                       | 1                                | <b>3</b>     |
|                   | 2012    | 13                      | 7                                | <b>20</b>    | -    | -                       | -                                | -            |
| 402               | 2000    | 1.3                     | 7.2                              | <b>8.50</b>  | 2013 | 0.84                    | 0.50                             | <b>1.34</b>  |
|                   | 2001    | 0.03                    | 0.76                             | <b>0.79</b>  | 2014 | 1.03                    | 1.40                             | <b>2.43</b>  |
|                   | 2002    | 0.1                     | 19.8                             | <b>19.90</b> | 2015 | 0.83                    | 0.57                             | <b>1.40</b>  |
|                   | 2003    | 0.5                     | 0.7                              | <b>1.20</b>  | 2016 | 0.54                    | 0.49                             | <b>1.03</b>  |
|                   | 2004    | 0.01                    | 0.79                             | <b>0.80</b>  | 2017 | 0.87                    | 0.53                             | <b>1.40</b>  |
|                   | 2005    | 0.03                    | 0.81                             | <b>0.84</b>  | 2018 | 0.73                    | 0.79                             | <b>1.52</b>  |
|                   | 2006    | 1.36                    | 2.2                              | <b>3.56</b>  | 2019 | 0.2                     | 0.44                             | <b>0.64</b>  |
|                   | 2007    | 0.13                    | 4.2                              | <b>4.33</b>  | 2020 | 0.51                    | 0.52                             | <b>1.03</b>  |
|                   | 2008a/b | 2.26                    | 2.8                              | <b>5.06</b>  | 2021 | 0.43                    | 0.46                             | <b>0.89</b>  |
|                   | 2009    | 0.6                     | 1                                | <b>1.60</b>  | 2022 | 0.16                    | 0.20                             | <b>0.36</b>  |
|                   | 2010    | 0.02                    | 1                                | <b>1.02</b>  | 2023 | 0.33                    | 0.56                             | <b>0.89</b>  |
|                   | 2011    | 0.01                    | 1.3                              | <b>1.31</b>  | 2024 | 0.21                    | 0.29                             | <b>0.50</b>  |
|                   | 2012    | 0.99                    | 0.76                             | <b>1.75</b>  | -    | -                       | -                                | -            |
| 70                | 2000    | 6.7                     | 37                               | <b>43.70</b> | 2013 | 0.01                    | 4.80                             | <b>4.81</b>  |
|                   | 2001    | 0.01                    | 2.9                              | <b>2.91</b>  | 2014 | 0.28                    | 2.81                             | <b>3.09</b>  |
|                   | 2002    | 0.05                    | 2.6                              | <b>2.65</b>  | 2015 | 0.56                    | 2.59                             | <b>3.15</b>  |
|                   | 2003    | 0                       | 3.1                              | <b>3.10</b>  | 2016 | 0.3                     | 1.97                             | <b>2.27</b>  |
|                   | 2004    | 0.02                    | 1.5                              | <b>1.52</b>  | 2017 | 0.39                    | 1.94                             | <b>2.33</b>  |
|                   | 2005    | 0.02                    | 2                                | <b>2.02</b>  | 2018 | 0.27                    | 1.55                             | <b>1.82</b>  |
|                   | 2006    | 0.04                    | 0.5                              | <b>0.54</b>  | 2019 | 0.26                    | 3.05                             | <b>3.31</b>  |
|                   | 2007    | 0.05                    | 3                                | <b>3.05</b>  | 2020 | 0.24                    | 1.65                             | <b>1.89</b>  |
|                   | 2008a/b | 0.47                    | 4.5                              | <b>4.97</b>  | 2021 | 0.22                    | 1.69                             | <b>1.91</b>  |
|                   | 2009    | 0.6                     | 1.8                              | <b>2.40</b>  | 2022 | 0.11                    | 2.04                             | <b>2.15</b>  |
|                   | 2010    | 0.01                    | 3                                | <b>3.01</b>  | 2023 | 11.78                   | 2.40                             | <b>14.18</b> |
|                   | 2011    | 0.99                    | 2                                | <b>2.99</b>  | 2024 | 0.24                    | 2.27                             | <b>2.51</b>  |
|                   | 2012    | 0.49                    | 2.94                             | <b>3.43</b>  | -    | -                       | -                                | -            |
| 71                | 2000    | 0.06                    | 20                               | <b>20.06</b> | 2013 | 0.01                    | 1.40                             | <b>1.41</b>  |
|                   | 2001    | 0.01                    | 1.2                              | <b>1.21</b>  | 2014 | 0.25                    | 0.80                             | <b>1.05</b>  |
|                   | 2002    | 0                       | 1.6                              | <b>1.60</b>  | 2015 | 0.15                    | 0.38                             | <b>0.53</b>  |
|                   | 2003    | 0                       | 0.3                              | <b>0.30</b>  | 2016 | 0.13                    | 0.75                             | <b>0.88</b>  |
|                   | 2004    | 0.01                    | 0.27                             | <b>0.28</b>  | 2017 | 0.22                    | 0.55                             | <b>0.77</b>  |
|                   | 2005    | 0.01                    | 0.43                             | <b>0.44</b>  | 2018 | 0.36                    | 0.31                             | <b>0.67</b>  |
|                   | 2006    | 0.02                    | 1.1                              | <b>1.12</b>  | 2019 | 0.15                    | 0.65                             | <b>0.80</b>  |
|                   | 2007    | 0.03                    | 2                                | <b>2.03</b>  | 2020 | 0.07                    | 0.36                             | <b>0.43</b>  |
|                   | 2008a/b | 0.23                    | 0.94                             | <b>1.17</b>  | 2021 | 0.09                    | 0.45                             | <b>0.54</b>  |
|                   | 2009    | 0.25                    | 0.2                              | <b>0.45</b>  | 2022 | 0.05                    | 0.28                             | <b>0.33</b>  |

| Plot <sup>1</sup> | Year | PCB TEQ <sup>2</sup> | Dioxin/Furan TEQ <sup>3</sup> | Total TEQ   | Year | PCB TEQ <sup>2</sup> | Dioxin/Furan TEQ <sup>3</sup> | Total TEQ   |
|-------------------|------|----------------------|-------------------------------|-------------|------|----------------------|-------------------------------|-------------|
|                   | 2010 | 0                    | 0                             | <b>0.00</b> | 2023 | 0.09                 | 0.28                          | <b>0.37</b> |
|                   | 2011 | 0.35                 | 0.4                           | <b>0.75</b> | 2024 | 0.15                 | 0.7                           | <b>0.85</b> |
|                   | 2012 | 0                    | 0.18                          | <b>0.18</b> | -    | -                    | -                             | -           |

<sup>1</sup> Order of plots indicate increasing distance from the SHTC (plot 11 [100 m] to plot 71 [21 km]). <sup>2</sup> Between 2000 and 2008a, PCB TEQs were calculated based on the WHO (1998) TEFs and from 2008b onwards, were based on the WHO (2005) TEFs.

<sup>3</sup> Between 2000 and 2008a, dioxin/furan TEQs were calculated based on NATO I-TEFs and from 2008b onwards, were based on the WHO (2005) TEFs. <sup>4</sup> Re-extraction result = 13.8 pg/g.

The overall trend for total TEQs in voles collected from plots  $\leq 2$  km (6 plots) and  $>2$  km (4 plots) from the SHTC has been to decrease between 2000 and 2021 although concentrations had been somewhat variable up to about 2013 within both distance categories (Figure 3-8). Since 2013, total TEQs have steadily been declining within both distance categories up until 2021 to the lowest concentrations since 2000 (Figure 3-8). However, total TEQs generally increased with relatively large increases recorded at plots 4, 114, and 117 in 2022 and at plot 70 in 2023. Nevertheless, the mean total TEQ for more distant plots (mean = 1.7 pg/g) was still considerably lower than that for plots located near the SHTC (mean = 25.5 pg/g) in 2024 as in previous monitoring years.

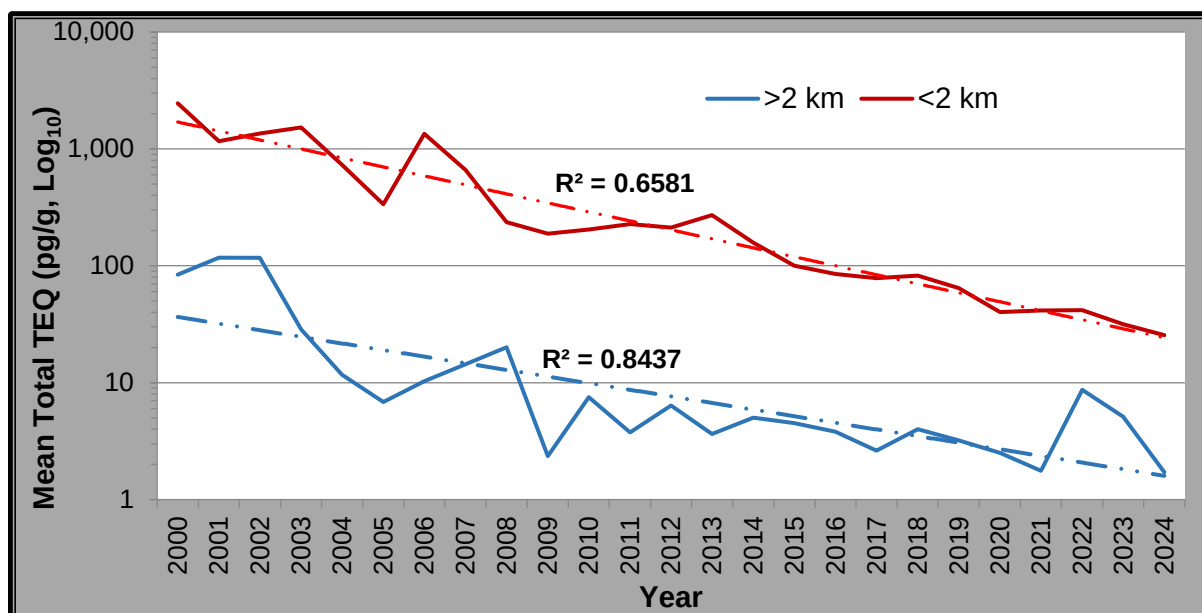


**Figure 3-8.** Mean total TEQ concentrations at plots  $\leq 2$  km and  $>2$  km from the SHTC, 2000 - 2024.

### 3.4.3.2 Effect of Plot Location on TEQs

The relationships between PCB TEQ, dioxin/furan TEQ, and total (PCB TEQ + dioxin/furan TEQ) TEQ concentrations in red-backed voles and distance and direction from the SHTC in May 2024 were analyzed for the 10 annually monitored plots using multiple linear regression

analysis. Values were log-transformed to improve normality. The results of these analyses yielded the following equations:

**PCB TEQ**

- $Y = 1.062 - 0.103 (\text{distance}) + 0.258 (\text{direction}) - 0.186 (\text{distance} \times \text{direction})$
- $r^2 = 0.84, P = 0.008$

**Dioxin/Furan TEQ**

- $Y = 0.466 - 0.025 (\text{distance}) + 0.151 (\text{direction}) - 0.140 (\text{distance} \times \text{direction})$
- $r^2 = 0.75, P = 0.032$

**Total TEQ**

- $Y = 1.203 - 0.063 (\text{distance}) + 0.191 (\text{direction}) - 0.184 (\text{distance} \times \text{direction})$
- $r^2 = 0.82, P = 0.013$

Distance was a significant predictor of total PCB TEQ concentrations in 2024. PCB TEQ was significantly related to distance ( $P = 0.005$ ) but not to direction ( $P = 0.526$ ) or the interaction term (direction x distance;  $P = 0.064$ ). The regression model was significant ( $P = 0.008$ ) in explaining 84% of the variation in PCB TEQ concentrations. The results indicate that PCB TEQ concentrations declined with increasing distance from the SHTC in 2024 and that plots both upwind and downwind of the SHTC were equally affected regardless of direction.

The regression model for dioxin/furan TEQ concentrations was also significant ( $P = 0.032$ ), explaining 75% of the variance in 2024. However, dioxin/furan TEQ was only significantly the interaction term (direction x distance;  $P = 0.023$ ) but not to distance ( $P = 0.117$ ) or direction ( $P = 0.511$ ). The significant interaction term indicates the combination of distance and direction had a significant effect on dioxin/furan TEQ concentrations in the vicinity of the SHTC even though individual distances and directions of the plots from the SHTC by themselves were not significantly affecting total TEQ concentrations in 2024.

The linear regression for total TEQ produced results similar to the PCB TEQ analysis, where the regression model was significant ( $P = 0.013$ ) in accounting for 82% of the variance in total TEQ concentrations. Total TEQ concentrations were significantly associated with distance ( $P = 0.017$ ) and the interaction term ( $P = 0.030$ ) but not with direction ( $P = 0.552$ ) from the SHTC, reflecting the contribution of PCB TEQ to total TEQ. However, the overall direction of the relationships suggests that total TEQ concentrations were higher in plots located downwind and closer to the SHTC during the 2024 monitoring year.

No statistically significant relationships were evident between TEQ values and prevailing wind direction in 2024 even though the strong dominant wind direction is from the west (Zelt 2014). Apparently, terrain features in the vicinity of the SHTC may cause winds to be deflected in stable and unstable conditions with light winds (Zelt 2014). Based on the results of the air quality modelling and criteria air contaminants, concentrations of PCBs and dioxins/furans were less than threshold values reported for Alberta, Ontario, and Texas and largely limited

to areas close to the SHTC (Zelt 2014). The air quality modelling appears to confirm that total TEQ concentrations in vole tissues are generally higher close to the SHTC (<0.7 km) and decrease as distance from the plant site increases.

### **3.4.4 Inorganic Elements (Heavy Metals)**

An examination of 28 inorganic chemical concentrations in relation to baseline (1986-1987) levels indicated that the average May 2024 concentrations (across all plots) of 16 elements were below those recorded during the baseline period, 7 were similar to baseline concentrations, and 4 exceeded baseline conditions (Table 3-27). In addition, 3 of the heavy metals were either not measured in 1986 and 1987 (baseline data; strontium and thallium) or in 2019 and 2024 (titanium) (Table 27). Of the 4 heavy metals that exceeded baseline concentrations in 2024 (copper, iron, manganese, and selenium), all were within ranges previously recorded (Table 3-27, Appendix 3).

Overall, 15 of the 27 metals measured in 2024 exhibited weak negative correlations, 7 of which were significant ( $P < 0.05$ ; i.e., aluminum, copper, iron, magnesium, manganese, potassium, and zinc) (Appendix 3). This suggested that as distance from the SHTC increased, metal concentrations tended to decrease in 2024. Five additional metals exhibited weak positive correlations (1 of which was significant [ $P < 0.05$ ]; i.e., phosphorus) indicating that as distance from the SHTC increased, metal concentrations also increased (Appendix 3). In comparison, 5 metals exhibited moderate positive correlations (4 of which were significant [ $P < 0.05$ ]; i.e., barium, calcium, sodium, and strontium) indicating that as distance from the SHTC increased, concentrations also increased (Appendix 3). No correlation between distance and concentrations of beryllium was detected in 2024.

Of the 27 metals measured in 2024, 8 are considered as elements of concern including arsenic, cadmium, chromium, copper, lead, mercury, nickel and zinc (Table 3-27) (e.g., Brumbagh et al. 2008, Ballová et al 2020, Hadavand et al. 2020). Copper and selenium were the only 2 metals that exceeded average baseline concentrations in 2024. Historically, average concentrations of these 8 metals have periodically exceeded baseline concentrations during the 13 monitoring years when these metals were measured (Table 3-27, Appendix 3):

- **Arsenic** – 7 of 13 years (1996, 1997, 1998, 2009, 2012, 2014, 2009);
- **Cadmium** – 0 of 13 years;
- **Chromium** – 6 of 13 years (1994, 1995, 1996, 1997, 1998, 2004);
- **Copper** – 10 of 13 years (1996, 1997, 1998, 2004, 2009, 2010, 2011, 2012, 2014, 2019);
- **Lead** – 3 of 13 years (1997, 2011, 2014);
- **Mercury** – 3 of 13 years (1995, 1996, 2011);
- **Nickel** – 5 of 13 years (2004, 2009, 2010, 2012, 2014); and
- **Zinc** – 7 of 13 years (1994, 1995, 2009, 2010, 2011, 2012, 2019).

**Table 3-27.** Average May 2024 concentrations (mg/kg dry weight) of inorganic elements in vole tissues compared to historical levels (1986 – 2019) recorded in the SHTC study area.

| Element                    | Baseline (1986-87) | 1994-98               | 2004                    | 2009                 | 2010          | 2011            | 2012          | 2014         | 2019          | 2024        |
|----------------------------|--------------------|-----------------------|-------------------------|----------------------|---------------|-----------------|---------------|--------------|---------------|-------------|
| Aluminum                   | 124.5              | 64 - 90               | 129                     | 75                   | 91            | 76              | 149           | 99           | 76            | 44          |
| Antimony                   | <0.2 <sup>1</sup>  | <0.2                  | <0.2                    | <0.4                 | 0.02          | 0.01            | 0.01          | 0.009        | 0.03          | <0.006      |
| <b>Arsenic<sup>3</sup></b> | <b>&lt;0.1</b>     | <b>&lt;0.1 – 0.4</b>  | <b>n.d.<sup>2</sup></b> | <b>0.2</b>           | <b>0.08</b>   | <b>&lt;0.14</b> | <b>0.13</b>   | <b>0.11</b>  | <b>0.12</b>   | <b>0.09</b> |
| Barium <sup>4</sup>        | 36.1               | 18 - 24               | 26                      | 37                   | 32            | <b>49</b>       | <b>40</b>     | <b>42</b>    | <b>39</b>     | 26          |
| Beryllium                  | <0.2               | <0.2                  | n.d.                    | <0.2                 | <0.02         | <0.17           | 0.11          | n.d.         | <0.007        | <0.005      |
| <b>Cadmium</b>             | <b>0.37</b>        | <b>&lt;0.2</b>        | <b>&lt;0.2</b>          | <b>&lt;0.4</b>       | <b>0.15</b>   | <b>0.19</b>     | <b>0.19</b>   | <b>0.18</b>  | <b>0.18</b>   | <b>0.16</b> |
| Calcium                    | 32,000             | 25,897–32,487         | 29,813                  | <b>39,615</b>        | <b>40,248</b> | <b>47,660</b>   | <b>36,256</b> | 30,567       | <b>37,475</b> | 25,910      |
| <b>Chromium</b>            | <b>1.3</b>         | <b>1.9 – 3.6</b>      | <b>2.5</b>              | <b>&lt;0.4</b>       | <b>0.4</b>    | <b>0.3</b>      | <b>1.1</b>    | <b>0.8</b>   | <b>0.1</b>    | <b>0.1</b>  |
| Cobalt                     | 0.3                | <0.2 – 0.3            | 0.4                     | <b>0.8</b>           | 0.3           | 0.3             | 0.3           | 0.3          | 0.3           | 0.2         |
| <b>Copper</b>              | <b>9.9</b>         | <b>0 - 21</b>         | <b>22.1</b>             | <b>21.1</b>          | <b>36.2</b>   | <b>13.2</b>     | <b>19.5</b>   | <b>22.2</b>  | <b>11.6</b>   | <b>13.8</b> |
| Iron                       | 303                | 291 - <b>317</b>      | <b>425</b>              | <b>400</b>           | <b>405</b>    | <b>468</b>      | <b>344</b>    | <b>337</b>   | <b>350</b>    | <b>357</b>  |
| <b>Lead</b>                | <b>1.1</b>         | <b>1 – 2</b>          | <b>&lt;1</b>            | <b>1</b>             | <b>1</b>      | <b>1.3</b>      | <b>0.8</b>    | <b>1.8</b>   | <b>1.0</b>    | <b>0.4</b>  |
| Magnesium                  | 1,500              | 1,113 – 1,427         | 1,512                   | <b>1,738</b>         | <b>1,796</b>  | <b>2,006</b>    | <b>1,353</b>  | <b>1,580</b> | <b>1,561</b>  | 1,292       |
| Manganese                  | 23                 | <b>28 - 41</b>        | <b>42</b>               | <b>50</b>            | <b>57</b>     | <b>47</b>       | <b>44</b>     | <b>44</b>    | <b>62</b>     | <b>43</b>   |
| <b>Mercury</b>             | <b>0.3</b>         | <b>0.11 – 0.39</b>    | <b>0.17</b>             | <b>.<sup>4</sup></b> | <b>0.29</b>   | <b>0.54</b>     | <b>0.28</b>   | <b>0.31</b>  | <b>0.21</b>   | <b>0.26</b> |
| Molybdenum                 | 1.1                | <1 - 1                | <1                      | 0.6                  | 0.6           | 0.6             | 0.5           | 0.6          | 0.6           | 0.5         |
| <b>Nickel</b>              | <b>2</b>           | <b>0.5 – 1.7</b>      | <b>8.6</b>              | <b>3.5</b>           | <b>4.8</b>    | <b>1.5</b>      | <b>5.3</b>    | <b>4.1</b>   | <b>1.2</b>    | <b>0.5</b>  |
| Phosphorus                 | 24,000             | 19,250–22,447         | 21,516                  | <b>35,944</b>        | <b>32,695</b> | <b>36,073</b>   | 23,634        | 23,079       | <b>27,848</b> | 20,810      |
| Potassium                  | 12,700             | 10,224– <b>18,433</b> | 11,423                  | 12,758               | <b>13,340</b> | <b>17,702</b>   | 12,603        | 11,095       | 11,342        | 11,298      |
| Selenium                   | 0.59               | <0.2 – <b>0.9</b>     | <b>1.3</b>              | <b>1.1</b>           | <b>0.8</b>    | <b>&lt;0.4</b>  | <b>0.9</b>    | <b>1.0</b>   | <b>0.8</b>    | <b>0.8</b>  |
| Silver                     | <0.2               | <0.2                  | <0.2                    | <0.2                 | 0.02          | 0.37            | n.d.          | 0.004        | <0.0353       | 0.010       |
| Sodium                     | 4,700              | 3,124 – 4,753         | 4,704                   | <b>5,441</b>         | <b>5,828</b>  | <b>5,683</b>    | <b>4,967</b>  | 4,494        | 4,821         | 4,692       |
| Strontium                  | <sup>5</sup>       | -                     | -                       | 18.4                 | 18            | 23.1            | 16            | 16.6         | 20.7          | 13.8        |
| Thallium                   | -                  | -                     | -                       | <0.04                | <0.02         | <0.03           | <0.02         | n.d.         | <0.0014       | 0.003       |
| Tin                        | <2                 | <2                    | <2                      | 0.8                  | 0.5           | 0.6             | 0.5           | 1.0          | 0.1           | 0.2         |
| Titanium                   | <b>1</b>           | <b>1.1 – 4.1</b>      | <b>5.2</b>              | <b>1.5</b>           | <b>2.2</b>    | <b>2</b>        | <b>3.4</b>    | <b>3.5</b>   | -             | -           |
| Vanadium                   | 2.1                | <2 - <b>3</b>         | <2                      | 0.4                  | 0.2           | 0.2             | 0.3           | 0.028        | 0.2           | 0.11        |
| <b>Zinc</b>                | <b>104</b>         | <b>94 - 157</b>       | <b>90</b>               | <b>123</b>           | <b>128</b>    | <b>110</b>      | <b>113</b>    | <b>94</b>    | <b>111</b>    | <b>91</b>   |

<sup>1</sup> < indicates below lowest detection limit. <sup>2</sup> n.d. – Below detection limit. <sup>3</sup> Bold indicates heavy metals of concern. <sup>4</sup> Bold italics indicates monitoring years where metal concentrations exceeded baseline concentrations. <sup>5</sup> - Indicates not analyzed.

These 8 metals of concern can bioaccumulate in voles through contaminated water, soil, and ingestion of food, affecting various neurological and physiological functions. Bioaccumulation typically occurs in bones, kidneys, liver, skin/fur, etc. Following a high-level scan of the literature on the effects of specific heavy metals on small mammals (Wildland Management



Consultants Ltd. 2022), it was apparent that small mammals can still persist in highly polluted areas without apparent effect while other studies show that community structure (e.g., populations, species diversity) may be affected in severely metal contaminated sites. Most plots associated with the SHTC exhibited metal concentrations consistent with or less than that reported in the literature that was reviewed (Wildland Management Consultants Ltd. 2022).

### **3.4.5 Polycyclic Aromatic Hydrocarbons (PAHs)**

PAHs in vole tissues have been periodically analyzed on various plots between 2000 and 2003 and then again during the 2019 expanded monitoring year (Appendix 4). During these monitoring years, PAHs in vole tissues were for the most part, below their detection limits. However, 11 analytes have been detected occasionally at or near their detection limits including 1) flourene and phenanthrene/anthracene in February and June 2000 at plots 11, 4, 114, 402, 70 and 71; and 2) anthracene, chrysene/triphenylene, flouranthene, c1-naphthalene, naphthalene, phenanthrene, 1-methylnapthalene, 2-methylnaphthalene, and pyrene in May 2019 at most of the 10 plots (Appendix 4). None of the PAHs that were detected in voles exhibited any clear trends with respect to distance between February 2000 and May 2019 when this analysis was conducted suggesting that the SHTC did not appear to be significant source of this class of organic compounds during this period.

However, 35 (45%) of the 78 analytes present in vole tissues were near or had exceeded the detection limits at between 5 and 10 of the plots during the 2024 expanded monitoring program (Table 3-28, Appendix 4). When compared to the 2019 monitoring year when the same 78 analytes were analyzed, percentage changes in concentrations increased from a low of 285% at plot 402 to a high of 1,079% at plot 117 representing an overall increase of 613% from 2019 (Table 3-28). As in previous monitoring years, there was no clear trend in the concentrations of PAHs in relation to distance from the treatment center in 2024 (Table 3-28).

While anthropogenic sources such as industrial stack emissions can contribute significantly to elevated PAH concentrations in various receptors (including red-backed voles), these results suggest that the higher concentrations recorded during 2024 were more likely related to the recent wildfire history in the Swan Hills region in 2023. Forest fires are considered the single most important natural source of PAHs in Canada. These data were examined further by Dr. P. Richards of Montrose Environmental where PAH fingerprint graphs were used to examine and compare the pyrogenic origins of each of the 10 plots. Based on this analysis, the fingerprint graphs for the background or reference plots (i.e., plot 70 and 71) compared strongly with all other plots, including those near to the SHTC, suggesting that the source of PAHs was regionally related to natural rather than anthropogenic sources (i.e., the SHTC). In addition, “the composition of PAHs closely resembles literature examples for forest fire ash,

which includes examples (e.g., following the 2016 Fort McMurray wildfire) for forest fires in the Alberta boreal forest. The composition includes high concentrations of naphthalene, phenanthrene, and of particular importance is a notable concentration of retene. Retene is a PAH that is characteristic of boreal forest softwood and demonstrates a clear connection to forest fires.” Dr. Richards concluded that all plots related to the SHTC vole monitoring program in 2024 presents a uniform source profile of PAHs, including the background plots indicating that the composition is comparable with what would be expected for boreal forest fire ash.

**Table 3-28.** Comparison of average PAH concentrations (mg/kg) between the 2019 and 2024 expanded monitoring years at plots in the SHTC study area.

| Plot          | Average PAH Concentrations (mg/kg) |                | % Change     |
|---------------|------------------------------------|----------------|--------------|
|               | 2019                               | 2024           |              |
| 11            | 0.01415                            | 0.0998         | <b>605</b>   |
| 109           | 0.01323                            | 0.0972         | <b>635</b>   |
| 4             | 0.01431                            | 0.07357        | <b>414</b>   |
| 110           | 0.01326                            | 0.07246        | <b>447</b>   |
| 114           | 0.01384                            | 0.10515        | <b>660</b>   |
| 123           | 0.01507                            | 0.12491        | <b>729</b>   |
| 117           | 0.0137                             | 0.16145        | <b>1,079</b> |
| 402           | 0.01266                            | 0.04876        | <b>285</b>   |
| 70            | 0.01479                            | 0.09956        | <b>573</b>   |
| 71            | 0.01308                            | 0.10174        | <b>678</b>   |
| <b>Totals</b> | <b>0.13809</b>                     | <b>0.98460</b> | <b>613</b>   |

Of the various PAH analytes detected in red-backed vole tissues in 2024 and previous monitoring years, 17 are considered to be priority PAHs by the U.S. Protection Agency, the Canadian Council of Ministers of the Environment, and Alberta Environment and Protected Areas (GoA 2024) because of their toxicity, persistence, and potential to bioaccumulate (Table 3-29). Overall, naphthalene and phenanthrene had the highest concentrations over the 6 monitoring years when PAH concentrations were recorded, accounting for 8.5% (0.0079 mg/kg) and 8.2% (0.0076 mg/kg) of the total respectively, while the lowest average concentration was recorded for perylene (1.9% or 0.0018 mg/kg) (Table 3-29). However, differences among the 17 priority PAHs were small and did not appear to exceed current guidelines (e.g., GoA 2024).

**Table 3-29.** PAH concentrations (mg/kg) recorded in 2024 in comparison to historical concentrations for 17 priority PAHs in the vicinity of the SHTC.

| Target Analytes        | Feb 2000           | June 2000      | Feb 2002    | Feb 2003    | May 2019      | May 2024      | Averages      |
|------------------------|--------------------|----------------|-------------|-------------|---------------|---------------|---------------|
| Acenaphthene           | 0.005 <sup>1</sup> | 0.005          | 0.01        | 0.01        | 0.0001        | 0.0002        | <b>0.0050</b> |
| Acenaphthylene         | 0.006              | 0.005          | 0.01        | 0.01        | 0.0001        | 0.0002        | <b>0.0052</b> |
| Anthracene             | 0.005              | - <sup>2</sup> | 0.01        | 0.01        | 0.000194      | 0.0002        | <b>0.0051</b> |
| Benzo(a)anthracene     | -                  | -              | 0.01        | 0.01        | 0.0001        | 0.0002        | <b>0.0051</b> |
| Benzo(a)pyrene         | -                  | -              | 0.01        | 0.01        | 0.0001        | 0.0002        | <b>0.0051</b> |
| Benzo(b)fluoranthene   | 0.01               | 0.005          | 0.01        | 0.01        | 0.0001        | 0.0005        | <b>0.0059</b> |
| Benzo(ghi)perylene     | 0.005              | 0.005          | 0.01        | 0.01        | 0.0001        | 0.0000        | <b>0.0050</b> |
| Benzo(k)fluoranthene   | 0.005              | 0.005          | 0.01        | 0.01        | 0.0001        | 0.0000        | <b>0.0050</b> |
| Dibenz(ah)anthracene   | 0.0146             | 0.005          | 0.01        | 0.01        | 0.0001        | 0.0002        | <b>0.0066</b> |
| Fluoranthene           | 0.005              | 0.005          | 0.01        | 0.01        | 0.0003        | 0.0017        | <b>0.0053</b> |
| Fluorene               | 0.0146             | 0.0075         | 0.01        | 0.01        | 0.0001        | 0.0014        | <b>0.0073</b> |
| Indeno(1,2,3-cd)pyrene | 0.005              | -              | 0.01        | 0.01        | 0.0001        | 0.0002        | <b>0.0051</b> |
| Naphthalene            | 0.01               | 0.005          | 0.01        | 0.01        | 0.0009        | 0.0114        | <b>0.0079</b> |
| Phenanthrene           | 0.012              | -              | 0.01        | 0.01        | 0.0005        | 0.0055        | <b>0.0076</b> |
| Pyrene                 | 0.005              | -              | 0.01        | 0.01        | 0.0005        | 0.001         | <b>0.0052</b> |
| Retene                 | -                  | -              | -           | -           | 0.0001        | 0.00146       | <b>0.0008</b> |
| Chrysene               | 0.005              | -              | 0.01        | 0.01-       | -             | -             | <b>0.0083</b> |
| <b>Totals</b>          | <b>0.1072</b>      | <b>0.0525</b>  | <b>0.15</b> | <b>0.15</b> | <b>0.0032</b> | <b>0.0230</b> | <b>-</b>      |

<sup>1</sup> Where present at each plot (see Appendix 4), ½ the detection limit was used to calculate total and average PAH concentrations.

<sup>2</sup> - Indicates not analyzed.

### 3.5 Chemical Concentrations in Relation to Red-backed Vole Demography

Chemicals, including PCBs, are known to affect reproductive success (Linzey 1987) and health (Kelly et al. 2009) in some species of small mammals. Consequently, several red-backed vole demographic parameters, including population density, percentage of heavy voles in breeding condition, sex ratios and weight class structure were examined in relation to chemical concentrations in tissues. Because population monitoring and chemical data analysis occur together at only 3 plots during the annual monitoring program, a statistical comparison of population and chemical parameters could not be conducted. As such, all data were compared qualitatively (Table 3-30).

**Table 3-30.** Comparison of population and chemical data collected at the 3 annual monitoring plots in the vicinity of the SHTC, 2024.

| Parameter                        |                                        | Plot 11    | Plot 114      | Plot 70     |
|----------------------------------|----------------------------------------|------------|---------------|-------------|
| Distance to SHTC plant site (km) |                                        | 0.1        | 0.7           | 11.5        |
| Direction to SHTC plant site     |                                        | Upwind (N) | Downwind (SE) | Upwind (SW) |
| Population Data                  | June population density (no./ha)       | 2.1        | 0.7           | 3.5         |
|                                  | September population density (no./ha)  | 10.4       | 6.3           | 9.0         |
|                                  | June sex ratio (M:F)                   | 3M         | 1F            | 4.0         |
|                                  | September sex ratio (M:F)              | 0.9        | 0.5           | 0.3         |
|                                  | % voles in heavy weight class in June  | 67         | 100           | 80          |
|                                  | % voles in heavy weight class in Sept. | 13         | 0             | 0           |
|                                  | % heavy voles breeding in June         | 67         | 100           | 40          |
|                                  | % heavy voles breeding in Sept.        | 13         | 11            | 0           |
| Chemical Data                    | PCB congeners (pg/g) in May            | 25,300     | 40,000        | 460         |
|                                  | Dioxins/furans (pg/g) in May           | 13         | 11            | 4           |
|                                  | PCB TEQ (pg/g) in May                  | 11         | 12            | 0.24        |
|                                  | Dioxin/furan TEQ (pg/g) in May         | 2          | 2             | 2           |
|                                  | Total TEQ (pg/g) in May                | 13         | 14            | 2.4         |
|                                  | Heavy Metals (mg/kg dwt) in May        | 1,781      | 2,293         | 2,192       |
|                                  | PAHs (mg/kg) in May                    | 0.0998     | 0.10515       | 0.09956     |

Plot 11 is located approximately 0.1 km upwind of the plant, plot 114 is located 0.7 km downwind of the plant, and plot 70 is located 11.5 km upwind of the SHTC. In 2024, while the results indicated that higher concentrations of chemical parameters were associated with plots 11 and 114 which are closer to the plant site than plot 70, there was no clear indication that the SHTC was affecting vole demography in 2024 (Table 3-30). For example, the highest vole density was recorded at plot 70 in June, followed by plots 11 and plot 114. In comparison, plot 11 had the highest vole density in September followed by plots 70 and 114. Similarly, there were no consistent trends in other demographic parameters recorded in 2024 (Table 3-30). Long-term monitoring has also not documented any obvious population-level changes that would be consistent with the higher body burden levels in voles near the SHTC that were observed between 2000 and 2024. Instead, variations in vole densities appears to more likely reflect different habitat conditions among the 3 plots and the phase of the population cycle the voles are in.

Overall, while higher contaminant levels were recorded in voles closer to the SHTC, this again did not appear to affect vole densities in 2024. This is consistent with previous monitoring years which indicates that facility operations have not had a discernible effect on vole

demography. Historically, observed demographic differences in vole populations in the SHTC study area were related to differences in habitat structure which can affect food supply, cover from inclement weather and predators, and the cyclic nature of red-backed vole populations. For example, plot 11, which is characterized as an upland black spruce stand with an understory dominated by feather moss and Labrador tea, is the least structurally diverse plot (Photo 3-1). In comparison, plot 114 is a lowland black spruce stand characterized by feather moss with higher Labrador tea cover and scattered open, wetter grassy areas. Plot 70 is the most structurally diverse of the 3 plots and is characterized by a multi-species mature tree canopy (black spruce, white spruce, and balsam fir), well developed shrub and ground layers, and abundant downed woody material (Photo 3-1).

Long-term population monitoring data indicate that vole densities are generally highest at plot 70 followed by plot 114 and lowest at plot 11. Furthermore, total TEQ concentrations at plots 114 and 11 have been decreasing over time and have been relatively stable over the past 10 years although increases were recorded in 2022. If total TEQ was impairing reproduction, fluctuations in vole densities at Plot 11 would be expected to be more pronounced than what was observed during the early 2000's when levels ranged from about 228 in 2005 to 3,441 pg/g in 2006 and were above the toxicity threshold where impacts would have been expected. In comparison, over the past few monitoring cycles where total TEQ values were lower at plot 11 (ranging from 26 in 2021 to 140 pg/g in 2014), fluctuations in vole densities were similar to densities recorded in the early 2000s. These trends are similar among the 3 plots during both the June (Figure 3-9) and September live-trapping sessions (Figure 3-10). The magnitude of the population cycles has not exhibited any obvious changes that would be consistent with higher contaminant loadings and instead, appear to be more likely reflect different habitat conditions, variable predation levels, weather conditions, and natural variations in the population cycle (3 - 5 years) among the 3 plots. Vole populations in the vicinity of the SHTC have been more or less synchronous in their densities since monitoring began (Figures 3-9 and 3-10).

**Plot 11**



**Plot 114**

**Plot 70**



**Photo 3-1.** Representative habitat conditions for the 3 annually monitored live-trapping plots in the SHTC study area.

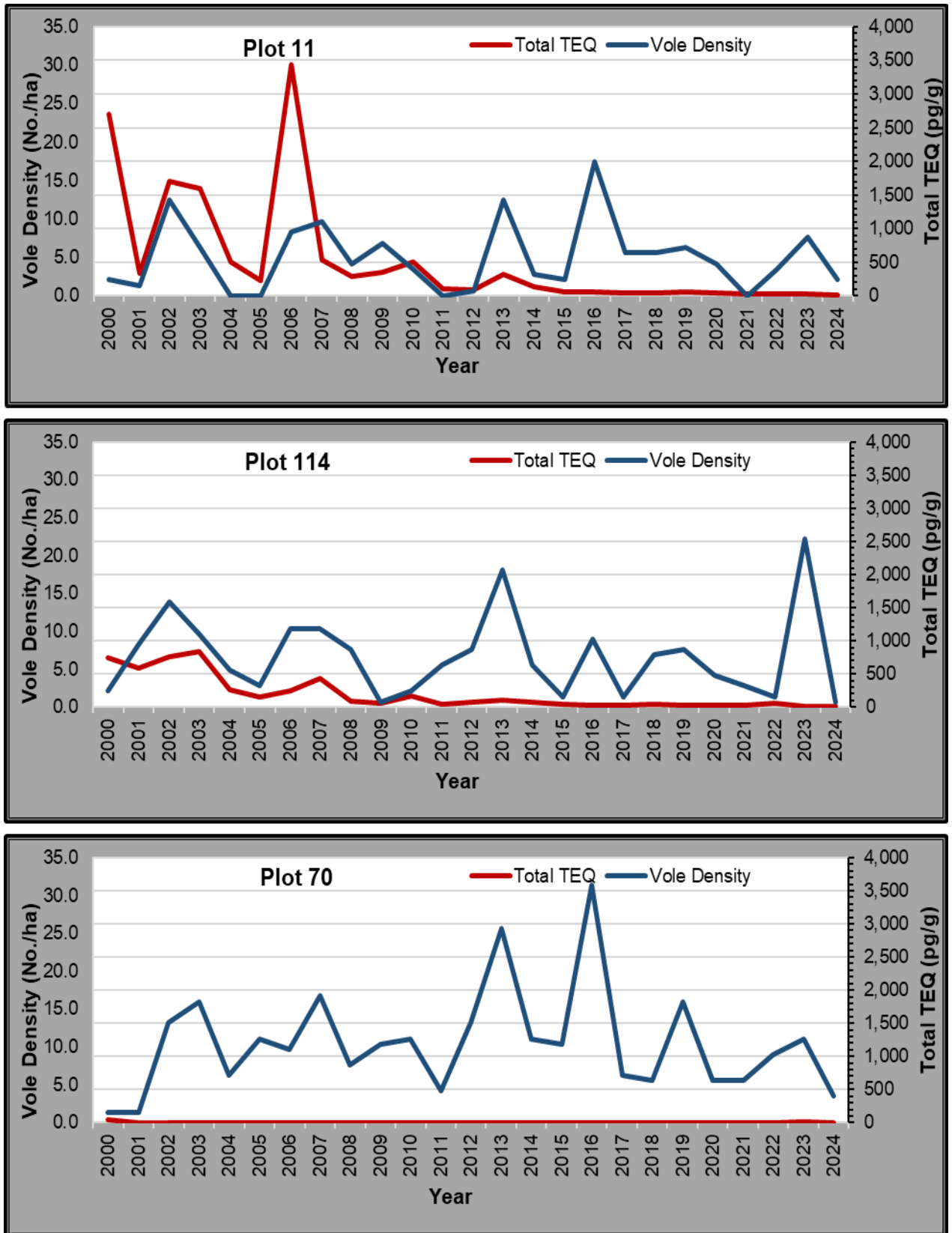


**Figure 3-9.** Comparison of June red-backed vole densities and total TEQs at the 3 annually monitored plots in the SHTC area from 2000 to 2024.



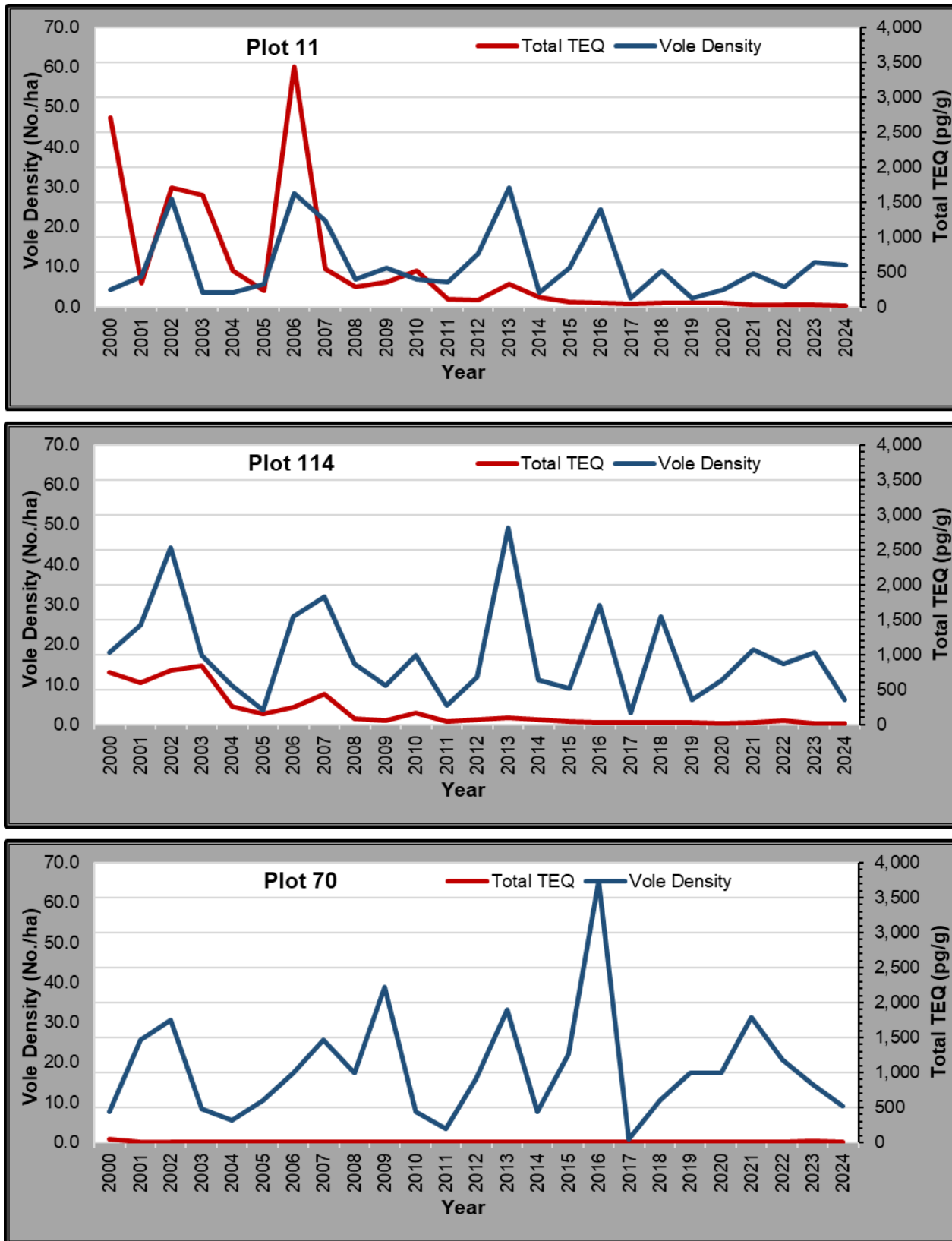


**Figure 3-10.** Comparisons of September red-backed vole densities and total TEQs at the 3 annually monitored plots in the SHTC area from 2000 to 2024.



## 4.0 DISCUSSION AND CONCLUSIONS

### 4.1 Red-backed Vole Demography

#### 4.1.1 *Abundance*

Between 1991 and 2015, average red-backed vole densities in the SHTC area have varied between 1.9 (2000) and 18.8 (2013) voles/ha in June, and between 4.9 (2011) and 37.5 (2013) voles/ha in September. However, vole populations in the SHTC area reached their highest average densities ever recorded for June (19.2 voles/ha) and September (39.8 voles/ha) during the 2016 vole monitoring year. These densities were 2.4 and 2.3 times higher than the respective 25-year average (1991 – 2015) vole densities for June (8.2 voles/ha) and September (17.5 voles/ha). Then in 2017, vole densities declined to some of the lowest levels recorded since monitoring began in the SHTC area (e.g., plots 11 and 70 fell to the lowest recorded September densities since 1991). Vole densities between 2018 and 2021 returned to similar densities recorded prior to the respective population peak and population low reported in 2016 and 2017. In comparison, while vole densities at the 3 monitoring plots in both June and September 2024 were within historical ranges previously recorded in the SHTC study area, they approached population lows similar to those recorded in 1993, 1997, 2000, and 2017.

Because of the reduction in scope of the 2024 expanded monitoring program (i.e., from 13 to 3 plots), vole densities and trends at the 3 population monitoring plots were the same as those reported as part of the annual monitoring program. However, in comparison to previous expanded monitoring years, the average vole density for the 2024 expanded monitoring year was the lowest recorded. On an individual plot basis, plot 11 had the second lowest vole density but was within the ranges previously recorded during the baseline phase (1986-1987) and subsequent expanded monitoring years that extended from 1988 through to 2019 (0.0 to 12.7 voles/ha). Although plots 114 and 70 were not sampled during the baseline phase of the SHTC monitoring program, vole densities at these plots during the 2024 expanded monitoring program were within the ranges previously recorded from 1988 through to 2019.

Variability in population densities across years appears to be related to the population dynamics of red-backed voles, which typically undergo cyclic population fluctuations over large geographic areas. Vole populations in the SHTC study area and elsewhere in central Alberta (e.g., Wildland Management Consultants Ltd. 2021) and North America (e.g., Krebs et al. 2002, Elias et al. 2006, Boonstra and Krebs 2011) have exhibited 3 - 5-year cycles, which is exemplified by dramatic declines after years of high or peak densities.

Historically, population increases, and decreases have almost been synchronous at the 3 annually monitored plots in the SHTC study area, although periodically there have been

differences in population dynamics among the plots, particularly in the June populations. This happened June in 2009, 2010, and at least partially, again in 2011 and 2022. For example, vole densities at plots 11 and 70 decreased from 2010 to 2011, while the density at plot 114 increased. The observed variability in June populations as compared to the more synchronous cycles observed in September is likely influenced by recruitment into the June population when breeding typically occurs. During 2024, both June and September vole densities decreased at all 3 plots with the greatest decline recorded at plot 114 June while only a slight decrease in vole density was recorded at plot 11.

The reason(s) for these inconsistencies in vole densities among plots is unclear but likely reflect differences in habitat structure at the plots (or site conditions) (e.g., Vanderwel et al. 2010) and therefore, their ability to support voles under variable weather conditions (e.g., overwinter survival) (Boonstra and Krebs 2006), levels of predation, and food supply. However, vole population synchronicity in June and September within the SHTC area appears to have returned since 2012 and is similar to the population cycles observed prior to 2009. In contrast, September vole densities between 2019 and 2024 were somewhat more erratic, similar to density fluctuations recorded between 2008 and 2011. With June and September densities approaching historic population lows, it seems likely that vole populations at the 3 annually monitored plots will begin the increase phase of their cycle in 2025.

#### **4.1.2 Sex Ratios**

Overall, the sex ratio for red-backed voles captured in June 2024 strongly favoured males (second highest male dominated sex ratio recorded), mostly a result of the capture of only males at plots 70 and 11. In comparison, the average sex ratio for voles in September 2024 favoured females, reflecting the predominance of females at plots 70 (0.3 males/female) and 114 (0.5 males/female). As in previous monitoring years, sex ratios in 2024 varied among plots and between live-trapping sessions. Historically, red-backed vole sex ratios have generally been more variable among the 3 plots in June than in September. While sex ratios have been highly variable among plots and years, this does not appear to have affected vole reproduction since populations have cycled every 3 to 5 years more or less synchronously since the SHTC vole monitoring program began.

#### **4.1.3 Weight Classes and Reproduction**

Aside from some variability in vole weight classes and breeding voles in the heavy weight class (i.e., breeding proportions) among the 3 annually monitored plots, most other demographic parameters were consistent with those recorded during previous years of monitoring. On average, 82% and 18% of the June 2024 population was comprised of heavy and moderate individuals while no voles in the light category were captured. In September 2024, voles in the “heavy” weight class accounted for only 4% of the animals captured across

the 3 monitoring plots, considerably less than the “moderate” category (86%) and less than the “light” vole class (10%). No clear trends in relation to distance of the 3 plots from the SHTC were evident in either June or September.

Because of the changes in the scope of the 2024 expanded wildlife monitoring program, both the June and September weight classes for red-backed voles were the same as those reported for the 3 2024 annually monitored plots. However, the results were similar to previous expanded monitoring years where heavy voles have tended to comprise an average of 61 to 95% of the June population, while moderate voles ranged between 3 and 30%. Light voles generally make up <10% of the population in June although in 1994, 19% of the voles captured were comprised of ‘light’ individuals. Overall, it appears that plot proximity in relation to the SHTC did not affect vole weights or reproductive rates in June and September 2024 or during previous expanded monitoring years.

#### **4.1.4 Survival**

Overwinter survival of voles (i.e., voles that were tagged in September 2023 and recaptured in June 2024) could not be calculated for 2 (plots 11 and 70) of the 3 plots since no previously tagged voles were known to have over-wintered during this period. However, one vole previously tagged in September 2023 was captured in June 2024 at plot 70 for a survival rate of 0.92. During previous monitoring years when survival rates could be calculated, the average overwinter survival of voles from 2001 to 2023 has ranged from 0.64 to 0.96 with an average of 0.88 (n = 17). During this period, the survival rates for 19 of the 38 years could not be calculated. When overwinter survival rates could be calculated, 32% (n = 11) were associated with increasing population and peak population monitoring years. Lower overwinter survival is typically a result of the lower red-backed vole populations, which makes it difficult to calculate survival with any degree of confidence. No voles that were tagged in June were captured in September 2024. When survival rates could be calculated, the average June to September survival of voles from 2001 to 2024 has ranged from 0.49 to 1.00 with an average of 0.65 (n = 24).

Prior to 2004, live trapping was conducted on 13 plots during June and September for each year which permitted the calculation of over-winter survival rates (September to June). However, following the initiation of the expanded monitoring program in 1999 (which occurs once every 5 years), over-winter survival rates for voles could not be calculated. Therefore, only survival rates of voles for the June to September (snow-free) period were calculated for the expanded monitoring years beginning in 1999. Similarly, because of the changes in the scope of the 2024 expanded wildlife monitoring program, June survival rates for red-backed voles are the same as those reported for the 3 2024 annually monitored plots. Therefore, during the 2024 September expanded monitoring year, the average survival rate for voles

during the summer period (0.90) was at the upper range of survival rates recorded during previous expanded monitoring years (0.66 to 0.90) (Table 3-16). Survival rate could only be calculated in September 2024 at plot 70.

## **4.2 Red-backed Vole Tissue Chemistry**

### **4.2.1 PCBs**

On an individual plot basis, the highest Aroclor concentration was recorded at plot 4, followed by plots 109, and 114, all of which are located  $\leq 0.7$  km from the SHTC while concentrations were generally lower at plots located further away. Similar trends in Aroclor PCB concentrations have been recorded in vole tissues collected from annually monitored and expanded monitoring plots since 1990. Following rationalization of the monitoring program in 2000 when 14 of the 24 plots were monitored every 5 years, Aroclor PCB concentrations for the annually monitored plots in 1999 and 2004 were higher (42% and 41%, respectively) than the average concentrations recorded for the expanded monitoring plots. In contrast, average concentrations at the 10 annually monitored plots were lower in 2009 (38%) and 2014 (15%) but higher (13%) in 2019. In 2024, Aroclor PCB concentrations were among the lowest recorded, similar to those reported in 1989 and 1990. Therefore, it appears that the 6 plots that are annually monitored represent reasonable indicators of the overall results for Aroclor PCBs in the vicinity of the SHTC. It should be noted that congener analysis by HRMS is generally considered more accurate than analyses using the Aroclor method; however, Aroclor PCB data are the only chemical data that have been collected continuously at all plots since 1988 and have been included as part of the annual and expanded monitoring programs for comparative purposes.

For the 10 annually monitored plots, the average concentration of PCB congeners in vole tissues decreased (-8%) between May 2023 and May 2024. While congener PCBs decreased at 5 plots, year-over-year increases were recorded at the remaining 5 plots, the highest increases of which occurred at plots 110 (173%) and 109 (73%). Despite these increases, the average 2024 concentration across the 10 plots is 73% lower than the 24-year average (2000 – 2023) for the SHTC study area; the second lowest concentration recorded since 2000. As in previous monitoring years, the lowest PCB concentrations were recorded at plots located farthest from the SHTC (i.e., plots 402, 70 and 71) while the highest concentrations typically occurred at plots closer to the plant site (plots 11, 109, 4, 110, and 114). The highest recorded PCB congeners occurred at plot 4, similar to most previous monitoring years. PCB 118 was the dominant toxic congener in voles collected from all plots in May 2024. PCB 126, which has the highest TEF, accounted for the majority of PCB TEQs at all plots despite its relatively low contribution to total PCB concentration.

PCB TEQs decreased at 6 and increased at 4 of the 10 plots between May 2023 and May 2024, representing an average decrease in PCB TEQ concentration of 13%. The highest PCB TEQ in 2024 was recorded at plot 4, which has been the case for all but one year (plot 109 in 2012), although it represents the second lowest concentration recorded at this plot since 2000. In comparison, PCB TEQ values at plots 402, 70, and 71 were  $\leq 1$  pg/g in 2024, continuing to represent the lowest levels recorded among the 10 plots on a historical basis. Historically, the highest PCB TEQ concentrations have been found in vole tissues collected near ( $\leq 0.7$  km) and lowest at plots further away ( $> 0.7$  km) the SHTC. The exceptions to this occurred in 2022 at plot 110 (7.62 pg/g) which is located only 0.3 km from the SHTC, plot 117 (28.1 pg/g) which is located 2.7 km from the SHTC, and plot 70 (11.80 pg/g) in 2023, unlike most previous monitoring years. The higher concentration of PCB TEQ at plot 70 was likely affected by the fires that were burning close to the Town of Swan Hills in 2023.

#### **4.2.2 Dioxins and Furans**

Dioxin/furan concentrations in red-backed voles decreased at 6 plots and increased at 4 plots between May 2023 and May 2024. The highest concentrations occurred at plots 4 (56.36 pg/g) and 109 (31.54 pg/g) while concentrations at the remaining plots were  $\leq 13.12$  pg/g (plot 4). For the most part, the highest levels of dioxins/furans occurred at plots 11 through 114 (range = 10.58 – 56.36 pg/g) which are located  $\leq 0.7$  km of the SHTC while the lowest values were generally recorded at plots 123 through to plot 71 (range = 2.13 - 11.44 pg/g), which are located the furthest away ( $> 0.7$  km). Dioxin/furan concentrations at the 10 plots in 2024 were within previously observed ranges. Overall, dioxin/furan congener concentrations in the SHTC study area were highest between 2000 and 2006 but for the most part, have been declining since 2006 although slight increases were recorded in 2022. In 2024, dioxin/furan congeners were 30.2% lower compared to 2023. Congener 2378 TCDF was the dominant dioxin/furan at 7 of the 10 plots in 2024, accounting for between 15% (plot 117) - 27% (plot 110) of the total concentrations at these plots (Table 3-13). In comparison, the dominant congener at plots 11, 109, 4, 110, 114, and 123 was 23478 PeCDF, accounting for between 15% - 23% of the total concentration.

The average dioxin/furan TEQ concentration in 2024 decreased 28.9% between May 2023 and May 2024, representing the second lowest concentration (2.7 pg/g) recorded in the SHTC study area since 2000 (range = 2.1 to 1,371.4 pg/g). Since 2006, dioxin/furan TEQs have consistently declined to the low levels that have been recorded between 2017 and 2024. As with PCB TEQs, dioxin/furan TEQ concentrations in voles generally declined with increasing distance from the SHTC in May 2024 although larger increases were documented at plots 114 and 117 in 2022 and at plot 70 (likely related to the wildfires in the vicinity of the Town of Swan Hills) in 2023 compared to recent monitoring years.

#### **4.2.3 PCB, Dioxin/Furan, and Total TEQs in Relation to Plot Location**

Analyses of chemical concentrations in relation to distance and prevailing wind direction did not result in a statistically significant relationship between TEQ concentrations and wind direction in 2024. While PCB TEQ, dioxin/furan TEQ, and total TEQ concentrations significantly decreased as distance from the SHTC increased in 2024, no significant trends with respect to TEQ values and prevailing wind direction were detected despite the fact that the dominant wind direction was from the west.

Between May 2023 and May 2024, total TEQ levels in red-backed voles decreased at 6 plots and increased at 4 of the 10 monitoring plots, resulting in an average 24% decrease (-5.06 pg/g). Average total TEQ at plots >2 km from the SHTC remained well-below total TEQ concentrations at plots ≤2 km from the SHTC in 2024. The overall trend in total TEQ concentrations for both distance categories in the SHTC study area has continued to decline since 2000 but increased in 2022 because of an anomaly in the data set. In 2023, total TEQ concentrations recorded at plots 114 and 117 were back within historical ranges while total TEQ concentration at plot 70 was the highest recorded since 2000. This was attributed to the occurrence of wildfires that occurred near the Town of Swan Hills and elsewhere in the vicinity of the SHTC study area. Increases in PCB TEQ concentrations recorded during the 2023 vegetation monitoring program for the SHTC (Matrix 2024) were noted but were within recent historical ranges. However, increases were also noted in dioxin/furan TEQs at some plots that were above values within recent historical ranges suggesting that the increase in total TEQ in Labrador tea was likely related to the 2023 wildfires, similar to the results obtained for the 2023 vole monitoring program. Total TEQ continued to decline in 2024.

#### **4.2.4 Inorganic Elements (Heavy Metals)**

Of the 28 heavy metal concentrations measured in vole tissues in 2024, 11 elements were below those recorded during the 1986-1097 baseline period, 10 were similar to baseline concentrations, while 4 exceeded baseline conditions. Of the 4 heavy metals that exceeded baseline concentrations in 2024 (copper, iron, manganese, and selenium), all were within ranges recorded during previous expanded monitoring years. Overall, 15 of 27 metals measured in 2024 exhibited weak negative correlations, 7 of which were significant ( $P < 0.05$ ), indicating that as distance from the SHTC increased, concentrations of heavy metals generally decreased. An additional 10 metals exhibited either significantly ( $P < 0.05$ ) weak (5 plots) or moderately (5 plots) positive concentrations suggesting that as distance from the SHTC increased, concentrations of these metals also increased. Eight of the 27 metals that were detected in vole tissues in May 2024 are also generally considered to be elements of concern including arsenic, cadmium, chromium, copper, lead, mercury, nickel and zinc. Of these 8 metals of concern, only copper and selenium exceeded baseline concentrations. Based on a

high-level scan of literature conducted in 2021 (Wildland Management Consultants Ltd. 2022), it was apparent that small mammals can still persist in highly polluted areas without apparent effect while other studies showed that community structure (e.g., populations, species diversity) may be affected in severely metal contaminated sites. Most plots associated with the SHTC exhibited metal concentrations consistent with or less than that reported in the literature that was reviewed (Wildland Management Consultants Ltd. 2022).

#### **4.2.5 Polycyclic Aromatic Hydrocarbons (PAHs)**

PAHs in voles collected from the SHTC study area were periodically analyzed on various plots between 2000 and 2003 and then again during the 2019 expanded monitoring programs. During these monitoring years, PAHs in vole tissues were for the most part, below their detection limits although 11 of the analytes were at or near their detection limits. In contrast, 35 (45%) of the 78 analytes present in vole tissues were near or exceeded the detection limits at between 5 and 10 of the plots during the 2024 expanded monitoring program. In comparison to the 2019 monitoring year when the same 78 analytes were analyzed, percentage changes in concentrations increased from a low of 285% at plot 402 to a high of 1,079% at plot 117 representing an overall increase of 613% from the 2019 monitoring year. As in previous monitoring years, there was no clear trend in the concentrations of PAHs in relation to distance from the SHTC. While anthropogenic sources such as industrial stack emissions can contribute significantly to elevated PAH concentrations in various receptors (including red-backed voles), these results suggest that the higher concentrations recorded during 2024 were more likely related to the recent fire history in the SHTC study area. Forest fires are generally the single most important natural source of PAHs in Canada.

In addition, of the various PAH analytes detected in red-backed vole tissues in 2024 and previous monitoring years, 17 are considered to be priority PAHs by the U.S. Protection Agency, the Canadian Council of Ministers of the Environment, and Alberta Environment and Protected Areas (GoA 2024) because of their toxicity, persistence, and potential to bioaccumulate. Overall, naphthalene and phenanthrene had the highest concentrations over the 6 monitoring years, accounting for 8.5% and 8.2% of the total PAH concentrations present in vole tissues, respectively, while the lowest average concentration was recorded for perylene (1.9%). However, differences among the 17 priority PAHs were small and did not appear to exceed current guidelines nor was there any clear trends in PAH concentrations in relation to distance from the SHTC.

Concerns associated with PAHs, which are widely distributed in the environment, are primarily related to their persistence and that some are mammalian carcinogens, although the effects of most noncarcinogenic PAHs are poorly understood (Neff 1985 cited in Eisler 1987, US EPA 2007). PAHs do not dissolve easily in water (particularly aquatic sediments), but many

evaporate readily into the air. Therefore, PAHs may enter terrestrial wildlife such as red-backed voles primarily through the respiratory system or secondarily by consumption of contaminated food or water or from topical exposure (Malcom and Heath 2003). There is currently insufficient data on acute or chronic toxicity to free-ranging terrestrial wildlife although lab and field studies suggest that because PAHs are lipophilic, they are not typically accumulated at high concentrations since these compounds are rapidly metabolized (Malcom and Shore 2003, Australian Government 2007, US EPA 2007). With the exception of 2024 when higher levels of PAHs in vole tissues were likely related to extensive fires that occurred in the SHTC region in 2023, the reason(s) for the presence and observed variation in some of the PAH analyte concentrations in vole tissue among the 10 annually monitored plots in the vicinity of the SHTC are unclear and may simply reflect background levels and variability.

### 4.3 Conclusions and Recommendations

The results of the 2024 expanded wildlife monitoring program indicate that overall Aroclor PCB, PCB congener, and PCB TEQ concentrations decreased substantially in red-backed vole tissues from 2019, representing among the lowest levels recorded in the SHTC study area since monitoring began in 1988. Similarly, average concentrations of dioxin/furan congeners and TEQs also decreased between May 2019 and May 2024 and are among the lowest recorded since monitoring for this class of chemicals began in 2000.

The results of the 2024 expanded wildlife monitoring program indicated that PCB (6 of 10 plots) and dioxin/furan (7 of 10 plots) TEQ concentrations decreased. Total TEQ concentrations at most plots in 2024 are still among the lowest levels recorded in the SHTC study area since 2000. Only 4 metals exceeded baseline concentrations while the remaining metals were either similar (7 metals) or below (16 metals) baseline conditions in 2024. Of the 28 metals monitored between 1986 and 2024, 8 are typically considered as elements of concern including arsenic, cadmium, chromium, copper, lead, mercury, nickel and zinc, although only copper and selenium exceeded baseline conditions. PAHs that were periodically analyzed on various plots between 2000 and 2003 and then again during the 2019 expanded monitoring years were for the most part, below their detection limits. While 35 (45%) of the 78 analytes present in vole tissues in 2024 were near or exceeded the detection limits at between 5 and 10 of the plots, no clear trends with respect to distance from the SHTC were evident. However, average PAH concentrations in 2024 were 613% higher than those recorded in 2019 when the same 78 analytes were analyzed. This large increase was likely related to the wildfires that occurred during 2023 in the vicinity of the SHTC study area. While no clear trends in PAH concentrations with respect to distance from the SHTC were evident, the elevated levels recorded in 2024 compared to previous years suggests that PAHs in voles should be monitored again in 2025.



As has been the case in past monitoring years, operation of the SHTC in 2024 did not appear to influence red-backed vole demography despite elevated levels of PCB and dioxin/furan TEQs in vole tissues collected from plots near the plant site. Average vole densities in June and September 2024 decreased considerably compared to 2023, approaching populations lows previously recorded 1993, 1997, 2000, and 2017. This suggests that vole populations in the SHTC study area will likely enter the increase phase of their population cycle in 2025.

Based on vole tissue chemistry data and the vole live-trapping sessions, there was no indication that SHTC operations affected red-backed vole demography despite elevated chemical levels in vole tissues close to the plant in 2024. Even though concentrations of PCB TEQs and dioxin/furan TEQs were, for the most part, at historically low concentrations, the continued presence of elevated contaminants in voles collected near the SHTC indicates that there is still a need to continue monitoring vole demography and tissue chemistry in 2025.

Based on the amount of long-term monitoring data that has been collected over the past 38 years as well as an expected reduction in the PCB waste stream going forward, the expanded wildlife monitoring program in 2024 was reduced from 13 vole population monitoring plots (which also included the 3 annually monitored plots) and 24 vole tissue collection plots to the 3 annually monitored plots and 10 tissue collection plots. Going forward, the annual monitoring program will now be comprised of ongoing monitoring of the same 3 previously annually monitored plots (June and September) and 6 vole tissue monitoring plots (Table 4-1). While there will be a reduction in vole tissue collection plots, this would focus annual monitoring of contaminant levels present in voles at 4 plots (plots 11, 4, 109, and 114) near the SHTC as well as 2 reference/control plots (plots 70 and 71) located further away. Laboratory analyses of contaminants in red-backed voles will focus on PCB, dioxin/furan, and total TEQs. However, if required, analysis of heavy metals and/or PAHs could be added in the event of any facility incidents/upsets or increased contaminant levels that may be detected in voles and various other media associated with the integrated environmental monitoring program for the SHTC.

#### **4.4 Red-backed Vole Trigger Protocol**

Following is a summary of potential responses that would be triggered in the event of any facility incidents/upsets or increased contaminant levels in various media associated with the integrated environmental monitoring program for the SHTC (Table 4-1).

**Table 4-1.** Summary of previous and current annual/expanded red-backed vole monitoring programs.

| Plot No.                                                           | Distance from SHTC the (km) | Direction from the SHTC | Tissue Collection/Snap-trapping <sup>1</sup> |                           |                                                                          | Population Monitoring/<br>Live-trapping <sup>1</sup> |
|--------------------------------------------------------------------|-----------------------------|-------------------------|----------------------------------------------|---------------------------|--------------------------------------------------------------------------|------------------------------------------------------|
|                                                                    |                             |                         | Metals, PAHs <sup>1</sup>                    | Aroclor PCBs <sup>2</sup> | PCB Congeners and TEQs, Dioxins/Furans and TEQs, Total TEQs <sup>3</sup> |                                                      |
| Previous Annual and Expanded Monitoring Programs (Prior to 2024):  |                             |                         |                                              |                           |                                                                          |                                                      |
| 11                                                                 | 0.1                         | N                       | ✓                                            | ✓                         | ☑                                                                        | ☑                                                    |
| 109                                                                | 0.2                         | W                       | ✓                                            | ✓                         | ☑                                                                        | ✓                                                    |
| 103                                                                | 0.2                         | SE                      | ✓                                            | ✓                         | -                                                                        | ✓                                                    |
| 4                                                                  | 0.3                         | E                       | ✓                                            | ✓                         | ☑                                                                        | ✓                                                    |
| 110                                                                | 0.3                         | W                       | ✓                                            | ✓                         | ☑                                                                        | -                                                    |
| 104                                                                | 0.4                         | NW                      | ✓                                            | ✓                         | -                                                                        | -                                                    |
| 102                                                                | 0.4                         | E                       | ✓                                            | ✓                         | -                                                                        | -                                                    |
| 1                                                                  | 0.4                         | NE                      | ✓                                            | ✓                         | -                                                                        | ✓                                                    |
| 27                                                                 | 0.5                         | S                       | ✓                                            | ✓                         | -                                                                        | ✓                                                    |
| 8                                                                  | 0.6                         | E                       | ✓                                            | ✓                         | -                                                                        | ✓                                                    |
| 15                                                                 | 0.6                         | NW                      | ✓                                            | ✓                         | -                                                                        | -                                                    |
| 114                                                                | 0.7                         | E                       | ✓                                            | ✓                         | ☑                                                                        | ☑                                                    |
| 121                                                                | 1.2                         | N                       | ✓                                            | ✓                         | -                                                                        | -                                                    |
| 9                                                                  | 1.4                         | ENE                     | ✓                                            | ✓                         | -                                                                        | ✓                                                    |
| 28                                                                 | 1.4                         | WNW                     | ✓                                            | ✓                         | -                                                                        | -                                                    |
| 123                                                                | 1.6                         | NE                      | ✓                                            | ✓                         | ☑                                                                        | -                                                    |
| 16                                                                 | 2.4                         | E                       | ✓                                            | ✓                         | -                                                                        | -                                                    |
| 117                                                                | 2.4                         | SE                      | ✓                                            | ✓                         | ☑                                                                        | -                                                    |
| 26                                                                 | 2.6                         | WNW                     | ✓                                            | ✓                         | -                                                                        | ✓                                                    |
| 30                                                                 | 3.6                         | NW                      | ✓                                            | ✓                         | -                                                                        | ✓                                                    |
| 29                                                                 | 3.9                         | E                       | ✓                                            | ✓                         | -                                                                        | -                                                    |
| 402                                                                | 7.5                         | E                       | ✓                                            | ✓                         | ☑                                                                        | -                                                    |
| 70                                                                 | 11.5                        | SW                      | ✓                                            | ✓                         | ☑                                                                        | ☑                                                    |
| 71                                                                 | 21.0                        | NNW                     | ✓                                            | ✓                         | ☑                                                                        | ✓                                                    |
| Current Annual and Expanded Monitoring Programs (2024 and Onward): |                             |                         |                                              |                           |                                                                          |                                                      |
| 11                                                                 | 0.1                         | N                       | ✓                                            | ✓                         | ☑                                                                        | ☑                                                    |
| 109                                                                | 0.2                         | W                       | ✓                                            | ✓                         | ☑                                                                        | -                                                    |
| 4                                                                  | 0.3                         | E                       | ✓                                            | ✓                         | ☑                                                                        | -                                                    |
| 110                                                                | 0.3                         | W                       | ✓                                            | ✓                         | ✓                                                                        | -                                                    |
| 114                                                                | 0.7                         | E                       | ✓                                            | ✓                         | ☑                                                                        | ☑                                                    |
| 123                                                                | 1.6                         | NE                      | ✓                                            | ✓                         | ✓                                                                        | -                                                    |
| 117                                                                | 2.4                         | SE                      | ✓                                            | ✓                         | ✓                                                                        | -                                                    |
| 402                                                                | 7.5                         | E                       | ✓                                            | ✓                         | ✓                                                                        | -                                                    |
| 70                                                                 | 11.5                        | SW                      | ✓                                            | ✓                         | ☑                                                                        | ☑                                                    |
| 71                                                                 | 21.0                        | NNW                     | ✓                                            | ✓                         | ☑                                                                        | -                                                    |

<sup>1</sup> Bold boxed check marks ☑ indicate plots that are monitored annually for vole tissue collection and population studies. Plain check marks ✓ indicate plots that are part of the expanded monitoring program (i.e., once every 5 years).

<sup>2</sup> The low resolution GC-ECD method historically used for Aroclor PCBs was discontinued in Canada in 2019.

<sup>3</sup> HRMS congener-specific methodology would be used for all expanded monitoring plots in response to a red-backed vole trigger.

**Table 4-2.** Red-backed vole monitoring program triggers and responses (Source: Intricate 2025).

| Trigger                                                                                                              | Response - Additional Monitoring Work                                                                                                                                   |
|----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Statistically significant change in June vole population levels correlated with April/May tissue contaminant levels. | Collect and analyze September vole tissue from population monitoring plots (11, 114 and 70) for PCBs, dioxins and furans.                                               |
| A facility upset resulting in off-site emissions of significant magnitude to warrant immediate assessment.           | Additional sampling of vole tissue. Timing, sample locations and analytical scope would be determined based on meteorological conditions and the nature of the release. |
| Elevated total TEQs in live moss and Labrador tea are observed.                                                      | Expand vole tissue collection to 10 plots consistent with the Soil and Vegetation programs.                                                                             |

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# 5

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## 6.0 APPENDICES

**Appendix 1.** Results of the chemical analyses for red-backed vole tissues collected in the SHTC study area, May 2024.



1435 Norjohn Court, Unit 1, Burlington, ON, Canada L7L 0E6  
Phone: 905-331-3111, FAX: 905-331-4567

## Certificate of Analysis

**ALS Project Contact:** DBROWN  
**ALS Project ID:** 24593  
**ALS WO#:** L2756078  
**Date of Report:** 15-Aug-24  
**Date of Sample Receipt:** 5-Jun-24

**Client Name:** Wildland Management Consultants Ltd.  
**Client Address:** 50345 Range Road 222  
Leduc County, AB T0B 3M2  
Canada  
**Client Contact:** Lawrence Brusnyk  
**Client Project ID:** SHTC 11-086

**COMMENTS:** **PCB Congeners by EPA 1668C**

**PCB Congener Group Totals and Total PCB are a sum of detected values, including EMPC values, consistent with USEPA CLP SOW CBC1.2**

All results have been reported on a dry weight basis.

Some results have been reported from the analysis of diluted extracts due to interferences causing suppression.

Where detected, the results for PCB-126 and PCB-169 have been reported from the analysis of an extract that has received additional preparation steps to remove interfering PCB congeners.

Certified by:

A handwritten signature in black ink, appearing to read "Steve Kennedy".

Steve Kennedy  
Technical Supervisor

Results in this certificate relate only to the samples as submitted to the laboratory.  
This report shall not be reproduced, except in full, without the written permission of ALS Canada Ltd.

| ALS Life Sciences              |                 |                  |                  |                  |                   |                   |
|--------------------------------|-----------------|------------------|------------------|------------------|-------------------|-------------------|
| Sample Analysis Summary Report |                 |                  |                  |                  |                   |                   |
| Sample Name                    | PLOT 4 - 6 JARS | PLOT 11 - 4 JARS | PLOT 70 - 3 JARS | PLOT 71 - 5 JARS | PLOT 109 - 5 JARS | PLOT 110 - 4 JARS |
| ALS Sample ID                  | L2756078-1      | L2756078-2       | L2756078-3       | L2756078-4       | L2756078-5        | L2756078-6        |
| Sample Size                    | 2.87            | 3.00             | 2.93             | 2.77             | 2.89              | 2.95              |
| Sample size units              | g dwt           | g dwt            | g dwt            | g dwt            | g dwt             | g dwt             |
| Percent Moisture               | 72.0%           | 70.9%            | 70.8%            | 72.6%            | 71.9%             | 71.5%             |
| Sample Matrix                  | Tissue          | Tissue           | Tissue           | Tissue           | Tissue            | Tissue            |
| Sampling Date                  | 25-May-24       | 25-May-24        | 25-May-24        | 25-May-24        | 25-May-24         | 25-May-24         |
| Extraction Date                | 6-Jul-24        | 6-Jul-24         | 6-Jul-24         | 6-Jul-24         | 6-Jul-24          | 6-Jul-24          |
| Target Analytes                | pg/g dwt        | pg/g dwt         | pg/g dwt         | pg/g dwt         | pg/g dwt          | pg/g dwt          |
| PCB-001                        | 3.23            | 3.59             | <1.5             | <1.4             | <2.9              | <2.0              |
| PCB-002                        | <2.0            | <1.4             | <1.7             | <1.6             | <3.6              | <2.2              |
| PCB-003                        | <2.2            | 5.54             | <1.9             | <2.3             | <4.7              | <2.4              |
| PCB-004                        | <14             | <13              | <12              | <14              | <25               | <11               |
| PCB-010                        | <8.5            | <7.6             | <6.8             | <8.0             | <12               | <6.2              |
| PCB-009                        | <9.0            | <8.1             | <7.2             | <8.5             | <13               | <6.6              |
| PCB-007                        | <9.1            | <8.2             | <7.3             | <8.6             | <13               | <6.5              |
| PCB-006                        | <9.0            | <8.0             | <7.2             | <8.4             | <13               | <6.5              |
| PCB-005                        | <10             | <9.3             | <8.4             | <9.8             | <14               | <6.9              |
| PCB-008                        | <7.8            | <7.0             | <6.3             | <7.4             | <12               | <6.1              |
| PCB-014                        | <12             | <13              | <9.5             | <9.6             | <28               | <15               |
| PCB-011                        | 95.7            | 118              | 111              | 143              | 129               | 89.9              |
| PCB-012/013                    | <12             | <13              | <9.4             | <9.5             | <28               | <14               |
| PCB-015                        | <13             | <15              | <10              | <11              | <27               | <15               |
| PCB-019                        | <4.4            | <4.1             | <3.3             | <3.5             | <7.6              | <3.4              |
| PCB-018/030                    | <6.5            | 6.81             | 5.86             | 4.67             | 11.2              | <4.9              |
| PCB-017                        | <4.7            | <4.3             | <2.9             | <3.8             | <5.2              | <2.6              |
| PCB-027                        | <3.6            | <3.3             | <2.2             | <2.9             | <3.8              | <2.0              |
| PCB-024                        | <4.0            | <3.7             | <2.5             | <3.2             | <4.4              | <2.2              |
| PCB-016                        | <5.3            | <4.9             | <3.3             | <4.2             | <5.9              | <3.0              |
| PCB-032                        | <3.3            | <3.0             | <2.0             | <2.6             | <3.5              | <1.8              |
| PCB-034                        | <6.2            | <3.5             | <3.3             | <3.7             | <6.0              | <3.6              |
| PCB-023                        | <5.9            | <3.4             | <3.2             | <3.6             | <5.9              | <3.5              |
| PCB-026/029                    | <6.0            | <3.2             | <3.0             | <3.4             | <5.5              | <4.8              |
| PCB-025                        | <5.6            | <3.2             | <3.0             | <3.4             | <5.4              | <3.2              |
| PCB-031                        | 31.5            | 10.7             | <6.8             | <6.8             | <18               | <9.4              |
| PCB-020/028                    | 478             | 65.4             | 31.6             | <15              | 229               | 362               |
| PCB-021/033                    | 21.2            | <7.7             | <3.1             | <4.2             | <10               | <8.1              |
| PCB-022                        | <11             | <3.7             | <3.5             | <3.9             | <6.2              | 9.77              |
| PCB-036                        | <5.4            | <3.1             | <2.9             | <3.3             | <5.2              | <3.1              |
| PCB-039                        | <6.6            | <3.8             | <3.5             | <4.0             | <6.3              | <3.8              |
| PCB-038                        | <6.3            | <3.6             | <3.3             | <3.8             | <6.0              | <3.6              |
| PCB-035                        | <6.5            | <3.7             | <3.5             | <3.9             | <6.2              | <3.7              |
| PCB-037                        | 91.7            | 35.2             | <3.5             | <4.0             | 55.9              | 30.0              |
| PCB-054                        | <1.6            | <0.90            | <1.2             | <1.6             | <3.3              | <1.5              |
| PCB-050/053                    | <3.4            | <2.8             | <3.0             | <3.7             | <5.6              | <2.4              |
| PCB-045/051                    | <3.6            | <2.9             | <3.1             | <3.9             | <5.9              | <2.5              |
| PCB-046                        | <3.9            | <3.2             | <3.4             | <4.2             | <6.5              | <2.8              |
| PCB-052                        | 88.9            | 32.8             | <17              | <14              | 51.4              | 72.3              |
| PCB-073                        | <2.4            | <2.0             | <2.1             | <2.7             | <4.1              | <1.8              |
| PCB-043                        | <3.8            | <3.1             | <3.3             | <4.2             | <6.7              | <2.9              |
| PCB-049/069                    | <22             | <4.9             | <2.6             | <3.3             | 19.9              | 27.8              |
| PCB-048                        | 5.07            | <2.9             | <3.1             | <3.8             | <5.6              | <2.4              |
| PCB-044/047/065                | 78.6            | 22.2             | 17.1             | <11              | <60               | 606               |
| PCB-059/062/075                | <12             | <2.8             | <2.2             | <2.8             | <13               | 76.1              |
| PCB-042                        | 7.65            | <3.2             | <3.4             | <4.2             | <6.5              | <2.8              |
| PCB-040/041/071                | 11.6            | 4.72             | <3.1             | <3.9             | <5.7              | <2.5              |
| PCB-064                        | <29             | <7.9             | <3.2             | <2.8             | <15               | 14.9              |
| PCB-072                        | <5.7            | <3.2             | <1.9             | <1.5             | <6.4              | 23.5              |
| PCB-068                        | <5.4            | <3.0             | <1.8             | <1.4             | <6.4              | <5.8              |
| PCB-057                        | <5.9            | <3.3             | <2.0             | <1.5             | <6.8              | <3.9              |
| PCB-058                        | <5.7            | <3.1             | <1.9             | <1.5             | <6.5              | <3.8              |
| PCB-067                        | <5.0            | <2.8             | <1.7             | <1.3             | <5.6              | <3.2              |
| PCB-063                        | 38.1            | <4.2             | <1.8             | <1.4             | 20.8              | 79.7              |
| PCB-061/070/074/076            | 2890            | 444              | <26              | 19.7             | 1400              | 841               |
| PCB-066                        | 742             | 83.4             | <8.2             | <4.2             | 316               | 397               |
| PCB-055                        | <6.1            | <3.4             | <2.0             | <1.6             | <7.1              | <4.1              |
| PCB-056                        | <46             | 10.1             | <1.8             | <1.4             | 31.7              | <4.4              |
| PCB-060                        | 496             | 60.0             | 6.67             | 5.13             | 218               | 111               |
| PCB-080                        | <4.8            | <2.6             | <1.6             | <1.2             | <5.4              | <3.1              |
| PCB-079                        | 16.9            | <3.2             | <1.7             | <1.3             | <7.4              | 13.2              |
| PCB-078                        | <6.4            | <3.5             | <2.1             | <1.7             | <7.0              | <4.0              |
| PCB-081                        | <74             | <16              | <2.1             | <1.7             | 38.2              | <8.9              |
| PCB-077                        | 841             | 236              | <4.0             | <2.9             | 366               | 173               |
| PCB-104                        | <2.3            | <2.2             | <2.0             | <2.2             | <2.9              | <1.8              |
| PCB-096                        | <2.9            | <3.0             | <2.7             | <3.2             | <4.0              | <2.5              |
| PCB-103                        | <6.2            | <4.6             | <3.3             | <3.3             | <5.7              | <4.5              |
| PCB-094                        | <6.7            | <5.0             | <3.6             | <3.5             | <6.2              | <4.9              |
| PCB-095                        | 189             | 41.8             | <4.1             | <4.1             | 77.2              | <31               |
| PCB-093/098/100/102            | <5.8            | <4.3             | <3.1             | <3.1             | <5.4              | <18               |

| ALS Life Sciences              |                 |                  |                  |                  |                   |                   |
|--------------------------------|-----------------|------------------|------------------|------------------|-------------------|-------------------|
| Sample Analysis Summary Report |                 |                  |                  |                  |                   |                   |
| Sample Name                    | PLOT 4 - 6 JARS | PLOT 11 - 4 JARS | PLOT 70 - 3 JARS | PLOT 71 - 5 JARS | PLOT 109 - 5 JARS | PLOT 110 - 4 JARS |
| ALS Sample ID                  | L2756078-1      | L2756078-2       | L2756078-3       | L2756078-4       | L2756078-5        | L2756078-6        |
| Sample Size                    | 2.87            | 3.00             | 2.93             | 2.77             | 2.89              | 2.95              |
| Sample size units              | g dwt           | g dwt            | g dwt            | g dwt            | g dwt             | g dwt             |
| Percent Moisture               | 72.0%           | 70.9%            | 70.8%            | 72.6%            | 71.9%             | 71.5%             |
| Sample Matrix                  | Tissue          | Tissue           | Tissue           | Tissue           | Tissue            | Tissue            |
| Sampling Date                  | 25-May-24       | 25-May-24        | 25-May-24        | 25-May-24        | 25-May-24         | 25-May-24         |
| Extraction Date                | 6-Jul-24        | 6-Jul-24         | 6-Jul-24         | 6-Jul-24         | 6-Jul-24          | 6-Jul-24          |
| Target Analytes                | pg/g dwt        | pg/g dwt         | pg/g dwt         | pg/g dwt         | pg/g dwt          | pg/g dwt          |
| PCB-088/091                    | 29.4            | <4.7             | <3.4             | <3.3             | <13               | 15.6              |
| PCB-084                        | 43.9            | <7.8             | <3.5             | <3.5             | <17               | <4.8              |
| PCB-089                        | <7.9            | <5.8             | <4.2             | <4.2             | <7.2              | <5.7              |
| PCB-121                        | <4.5            | <3.3             | <2.4             | <2.3             | <4.0              | <3.2              |
| PCB-092                        | 136             | 33.3             | <3.8             | <3.7             | 58.3              | 187               |
| PCB-090/101/113                | 734             | 132              | <8.8             | <3.9             | 320               | 505               |
| PCB-083/099                    | 2760            | 344              | 25.3             | 10.9             | 1090              | 2560              |
| PCB-112                        | <4.2            | <3.1             | <2.2             | <2.2             | <3.8              | <3.0              |
| PCB-086/087/097/109/119/125    | 361             | 60.8             | <2.6             | <2.6             | 156               | 133               |
| PCB-085/110/115/116/117        | 1740            | 299              | <8.8             | 7.50             | 792               | 636               |
| PCB-082                        | 77.6            | 12.9             | <4.3             | <4.3             | <20               | <5.9              |
| PCB-111                        | <8.2            | <3.2             | <2.3             | <2.3             | <3.8              | <16               |
| PCB-120                        | <32             | <4.6             | <2.2             | <2.2             | <23               | 61.7              |
| PCB-108/124                    | 87.7            | <22              | <2.9             | <2.7             | 38.7              | <26               |
| PCB-107                        | 905             | 125              | <3.3             | <2.6             | 431               | 577               |
| PCB-123                        | 118             | <14              | <3.3             | <3.3             | 42.3              | <45               |
| PCB-106                        | <9.1            | <5.0             | <3.1             | <3.0             | <11               | <3.6              |
| PCB-118                        | 41900           | 7550             | 129              | <74              | 24700             | 11100             |
| PCB-122                        | <120            | <6.1             | <3.8             | <3.6             | <13               | <4.3              |
| PCB-114                        | 781             | <92              | <3.4             | <3.2             | 299               | 207               |
| PCB-105                        | 8140            | 1070             | <21              | 14.4             | 3660              | 1890              |
| PCB-127                        | <26             | <4.9             | <3.1             | <2.9             | <12               | <3.7              |
| PCB-126                        | 2270            | 368              | 7.55             | <5.0             | 1180              | 191               |
| PCB-155                        | <0.94           | <0.97            | <0.96            | <1.5             | 1.38              | <1.2              |
| PCB-152                        | <1.8            | <1.9             | <1.9             | <2.9             | <2.6              | <2.3              |
| PCB-150                        | <1.5            | <1.4             | <1.5             | <2.2             | <1.9              | <1.8              |
| PCB-136                        | 47.6            | <8.7             | <1.7             | <2.6             | 17.8              | 4.83              |
| PCB-145                        | <1.6            | <1.6             | <1.7             | <2.5             | <2.2              | <2.0              |
| PCB-148                        | <2.2            | <2.2             | <2.3             | <3.5             | <2.9              | 8.24              |
| PCB-135/151                    | 672             | 136              | <3.2             | <4.0             | 213               | 277               |
| PCB-154                        | <1.4            | <1.4             | <1.5             | <2.2             | <2.3              | 104               |
| PCB-144                        | 75.0            | 13.0             | <2.3             | <3.5             | 27.1              | 16.0              |
| PCB-147/149                    | 1120            | 203              | <7.5             | <5.5             | <11               | 545               |
| PCB-134/143                    | 35.1            | 10.1             | <3.3             | <4.7             | <17               | <11               |
| PCB-139/140                    | 82.7            | <13              | <2.6             | <3.7             | 50.2              | 55.6              |
| PCB-131                        | <14             | <9.0             | <3.3             | <4.7             | <13               | <11               |
| PCB-142                        | <14             | <8.8             | <3.3             | <4.7             | <13               | <11               |
| PCB-132                        | 411             | 67.6             | <3.1             | <4.4             | 172               | 85.3              |
| PCB-133                        | 397             | <20              | <2.9             | <4.2             | 107               | 363               |
| PCB-165                        | 31.9            | <5.7             | <2.1             | <3.0             | 18.8              | 23.6              |
| PCB-146                        | 2600            | 301              | <8.5             | <5.4             | 1070              | 2010              |
| PCB-161                        | <7.7            | <5.0             | <1.9             | <2.6             | <7.3              | <6.2              |
| PCB-153/168                    | 29600           | 5830             | 124              | 71.6             | 22300             | 13800             |
| PCB-141                        | 672             | 158              | <2.6             | <3.7             | 391               | 271               |
| PCB-130                        | 1370            | 228              | <3.3             | <4.5             | 737               | 704               |
| PCB-137/164                    | 520             | 88.5             | 2.79             | <3.3             | 240               | 220               |
| PCB-129/138/163                | 28800           | 5280             | 111              | 62.9             | 16800             | 10300             |
| PCB-160                        | <8.6            | <5.6             | <2.1             | <3.0             | <8.1              | <6.9              |
| PCB-158                        | 1500            | 317              | <5.3             | <2.4             | 1030              | 553               |
| PCB-128/166                    | 2500            | 490              | 9.98             | <4.5             | 1510              | 844               |
| PCB-159                        | 47.9            | 13.6             | <1.9             | <2.7             | 26.6              | <11               |
| PCB-162                        | 255             | 47.6             | <2.0             | <2.9             | 148               | 83.1              |
| PCB-167                        | 4870            | 1130             | <11              | <8.4             | 3090              | 970               |
| PCB-156/157                    | 10500           | 2500             | 26.7             | <12              | 6330              | 1940              |
| PCB-169                        | 122             | 29.9             | <2.6             | <3.1             | 64.3              | 10.9              |
| PCB-188                        | <3.4            | <2.8             | <1.1             | <2.0             | <3.8              | <4.1              |
| PCB-179                        | 115             | 22.6             | <1.3             | <2.4             | 34.7              | 16.8              |
| PCB-184                        | <3.8            | <3.1             | <1.2             | <2.3             | <4.3              | <4.7              |
| PCB-176                        | 50.8            | 9.09             | <1.3             | <2.4             | <12               | <4.9              |
| PCB-186                        | <4.4            | <3.6             | <1.4             | <2.6             | <4.8              | <5.3              |
| PCB-178                        | 4690            | 920              | <18              | 11.0             | 2180              | 1480              |
| PCB-175                        | 185             | <23              | <1.8             | <3.4             | <50               | 55.5              |
| PCB-187                        | 28000           | 4690             | 70.9             | 48.2             | 13400             | 7310              |
| PCB-182                        | <5.2            | <6.1             | <1.6             | <3.1             | <5.5              | <6.1              |
| PCB-183                        | 6330            | 843              | <15              | <9.8             | 2400              | 1720              |
| PCB-185                        | <130            | 35.6             | <1.9             | <3.6             | 52.1              | <57               |
| PCB-174                        | 718             | 130              | <1.7             | <3.2             | 248               | 186               |
| PCB-177                        | 12400           | 2880             | <31              | <15              | 5980              | 3370              |
| PCB-181                        | <65             | <18              | <1.9             | <3.6             | <51               | <11               |
| PCB-171/173                    | 1480            | <330             | <5.6             | <3.5             | 932               | 480               |
| PCB-172                        | 7260            | 923              | <15              | <7.9             | 2500              | 1290              |

| ALS Life Sciences              |                 |                  |                  |                  |                   |                   |
|--------------------------------|-----------------|------------------|------------------|------------------|-------------------|-------------------|
| Sample Analysis Summary Report |                 |                  |                  |                  |                   |                   |
| Sample Name                    | PLOT 4 - 6 JARS | PLOT 11 - 4 JARS | PLOT 70 - 3 JARS | PLOT 71 - 5 JARS | PLOT 109 - 5 JARS | PLOT 110 - 4 JARS |
| ALS Sample ID                  | L2756078-1      | L2756078-2       | L2756078-3       | L2756078-4       | L2756078-5        | L2756078-6        |
| Sample Size                    | 2.87            | 3.00             | 2.93             | 2.77             | 2.89              | 2.95              |
| Sample size units              | g dwt           | g dwt            | g dwt            | g dwt            | g dwt             | g dwt             |
| Percent Moisture               | 72.0%           | 70.9%            | 70.8%            | 72.6%            | 71.9%             | 71.5%             |
| Sample Matrix                  | Tissue          | Tissue           | Tissue           | Tissue           | Tissue            | Tissue            |
| Sampling Date                  | 25-May-24       | 25-May-24        | 25-May-24        | 25-May-24        | 25-May-24         | 25-May-24         |
| Extraction Date                | 6-Jul-24        | 6-Jul-24         | 6-Jul-24         | 6-Jul-24         | 6-Jul-24          | 6-Jul-24          |
| Target Analytes                | pg/g dwt        | pg/g dwt         | pg/g dwt         | pg/g dwt         | pg/g dwt          | pg/g dwt          |
| PCB-192                        | <4.9            | <4.0             | <1.5             | <2.9             | <6.8              | <5.4              |
| PCB-180/193                    | 74800           | 17300            | 183              | <91              | 46700             | 15900             |
| PCB-191                        | <140            | <25              | <1.3             | <2.5             | <62               | 78.7              |
| PCB-170                        | 11300           | 2600             | 32.3             | 18.0             | 7040              | 3070              |
| PCB-190                        | 9410            | 2490             | 25.6             | <17              | 5450              | 1520              |
| PCB-189                        | 2460            | 680              | 10.2             | <6.4             | 1500              | 404               |
| PCB-202                        | 1770            | 498              | 16.5             | 5.94             | 926               | 402               |
| PCB-201                        | 275             | 58.7             | <0.80            | <1.3             | 120               | <67               |
| PCB-204                        | <1.5            | <1.5             | <0.79            | <1.3             | <3.3              | <1.4              |
| PCB-197                        | 170             | 42.2             | <1.6             | <1.4             | 93.7              | 46.5              |
| PCB-200                        | <27             | <4.2             | <0.87            | <1.4             | 10.7              | 4.42              |
| PCB-198/199                    | 33500           | 6780             | <94              | 58.9             | 17200             | 4870              |
| PCB-196                        | 2500            | 391              | 8.73             | <2.8             | 1140              | 635               |
| PCB-203                        | 14900           | 3760             | 44.3             | <34              | 8720              | 2550              |
| PCB-195                        | 5470            | 1540             | 17.0             | <5.7             | 4430              | 1160              |
| PCB-194                        | 33300           | 8750             | 87.7             | 55.9             | 20900             | 4960              |
| PCB-205                        | 1780            | 532              | 8.22             | <5.3             | 1130              | 275               |
| PCB-208                        | 799             | 200              | 16.6             | <9.7             | 371               | 134               |
| PCB-207                        | 205             | 64.0             | <5.7             | <3.3             | 128               | 56.2              |
| PCB-206                        | 6810            | 1830             | 66.0             | 49.7             | 4090              | 944               |
| PCB-209                        | 518             | 299              | 51.3             | 39.5             | 276               | 115               |
| Extraction Standards           | % Rec           | % Rec            | % Rec            | % Rec            | % Rec             | % Rec             |
| 13C12-PCB-001                  | 34              | 35               | 41               | 44               | 19                | 36                |
| 13C12-PCB-003                  | 37              | 41               | 44               | 47               | 23                | 41                |
| 13C12-PCB-004                  | 47              | 49               | 56               | 55               | 27                | 49                |
| 13C12-PCB-015                  | 44              | 47               | 55               | 54               | 35                | 55                |
| 13C12-PCB-019                  | 50              | 51               | 58               | 58               | 31                | 52                |
| 13C12-PCB-037                  | 58              | 63               | 70               | 60               | 41                | 62                |
| 13C12-PCB-054                  | 53              | 57               | 67               | 55               | 35                | 55                |
| 13C12-PCB-081                  | 70              | 71               | 81               | 74               | 54                | 82                |
| 13C12-PCB-077                  | 66              | 68               | 80               | 73               | 53                | 81                |
| 13C12-PCB-104                  | 61              | 67               | 72               | 73               | 54                | 82                |
| 13C12-PCB-123                  | 72              | 75               | 88               | 77               | 61                | 91                |
| 13C12-PCB-118                  | 94              | 86               | 98               | 94               | 73                | 106               |
| 13C12-PCB-114                  | 70              | 74               | 85               | 75               | 57                | 86                |
| 13C12-PCB-105                  | 75              | 76               | 89               | 81               | 63                | 90                |
| 13C12-PCB-126                  | 82              | 61               | 89               | 79               | 71                | 55                |
| 13C12-PCB-155                  | 76              | 75               | 93               | 78               | 59                | 87                |
| 13C12-PCB-167                  | 76              | 72               | 92               | 80               | 61                | 88                |
| 13C12-PCB-156/157              | 69              | 69               | 88               | 76               | 59                | 82                |
| 13C12-PCB-169                  | 90              | 82               | 92               | 76               | 93                | 75                |
| 13C12-PCB-188                  | 69              | 66               | 89               | 75               | 56                | 82                |
| 13C12-PCB-189                  | 70              | 71               | 90               | 74               | 60                | 81                |
| 13C12-PCB-202                  | 79              | 73               | 93               | 79               | 60                | 89                |
| 13C12-PCB-205                  | 74              | 72               | 97               | 78               | 62                | 90                |
| 13C12-PCB-208                  | 74              | 70               | 84               | 52               | 62                | 78                |
| 13C12-PCB-206                  | 76              | 77               | 97               | 81               | 63                | 92                |
| 13C12-PCB-209                  | 83              | 83               | 103              | 90               | 68                | 99                |
| Cleanup Standards              |                 |                  |                  |                  |                   |                   |
| 13C12-PCB-028                  | 55              | 51               | 59               | 47               | 43                | 59                |
| 13C12-PCB-111                  | 71              | 65               | 73               | 65               | 62                | 80                |
| 13C12-PCB-178                  | 70              | 66               | 74               | 61               | 65                | 84                |



| ALS Life Sciences              |                 |                  |                  |                  |                   |                   |
|--------------------------------|-----------------|------------------|------------------|------------------|-------------------|-------------------|
| Sample Analysis Summary Report |                 |                  |                  |                  |                   |                   |
| Sample Name                    | PLOT 4 - 6 JARS | PLOT 11 - 4 JARS | PLOT 70 - 3 JARS | PLOT 71 - 5 JARS | PLOT 109 - 5 JARS | PLOT 110 - 4 JARS |
| ALS Sample ID                  | L2756078-1      | L2756078-2       | L2756078-3       | L2756078-4       | L2756078-5        | L2756078-6        |
| Sample Size                    | 2.87            | 3.00             | 2.93             | 2.77             | 2.89              | 2.95              |
| Sample size units              | g dwt           | g dwt            | g dwt            | g dwt            | g dwt             | g dwt             |
| Percent Moisture               | 72.0%           | 70.9%            | 70.8%            | 72.6%            | 71.9%             | 71.5%             |
| Sample Matrix                  | Tissue          | Tissue           | Tissue           | Tissue           | Tissue            | Tissue            |
| Sampling Date                  | 25-May-24       | 25-May-24        | 25-May-24        | 25-May-24        | 25-May-24         | 25-May-24         |
| Extraction Date                | 6-Jul-24        | 6-Jul-24         | 6-Jul-24         | 6-Jul-24         | 6-Jul-24          | 6-Jul-24          |
| Target Analytes                | pg/g dwt        | pg/g dwt         | pg/g dwt         | pg/g dwt         | pg/g dwt          | pg/g dwt          |
| Homologue Group Totals         | pg/g dwt        | pg/g dwt         | pg/g dwt         | pg/g dwt         | pg/g dwt          | pg/g dwt          |
| Total MonoCB                   | 3.23            | 9.13             | <1.5             | 2.30             | 8.30              | <2.0              |
| Total DiCB                     | 95.7            | 118              | 111              | 143              | 129               | 89.9              |
| Total TriCB                    | 646             | 126              | 44.3             | 30.7             | 324               | 429               |
| Total TetraCB                  | 5400            | 932              | 82.2             | 56.9             | 2560              | 2450              |
| Total PentaCB                  | 60500           | 10200            | 204              | 116              | 32900             | 18200             |
| Total HexaCB                   | 86200           | 16900            | 316              | 170              | 54400             | 33200             |
| Total HeptaCB                  | 160000          | 33900            | 407              | 224              | 88600             | 36900             |
| Total OctaCB                   | 93700           | 22400            | 278              | 169              | 54700             | 15000             |
| Total NonaCB                   | 7810            | 2090             | 88.3             | 62.7             | 4590              | 1130              |
| DecaCB                         | 518             | 299              | 51.3             | 39.5             | 276               | 115               |
| Total PCB                      | 414000          | 86900            | 1580             | 1010             | 238000            | 108000            |
| Estimated Aroclor Conc.        | ng/g            | ng/g             | ng/g             | ng/g             | ng/g              | ng/g              |
| Aroclor 1016                   | <1              | <1               | <1               | <1               | <1                | <1                |
| Aroclor 1221                   | <1              | <1               | <1               | <1               | <1                | <1                |
| Aroclor 1232                   | <1              | <1               | <1               | <1               | <1                | <1                |
| Aroclor 1242                   | <1              | <1               | <1               | <1               | <1                | <1                |
| Aroclor 1248                   | <5              | <1               | <1               | <1               | <2                | <2                |
| Aroclor 1254                   | 95.3            | 18.1             | 0.387            | 0.246            | 53.0              | 25.9              |
| Aroclor 1260                   | 78.3            | 15.6             | 0.377            | 0.238            | 49.0              | 29.0              |
| Aroclor 1262                   | 240             | 53.3             | 0.815            | 0.526            | 136               | 53.1              |
| Toxic Equivalency - (WHO 2005) |                 |                  |                  |                  |                   |                   |
| Lower Bound PCB TEQ            | 233             | 38.1             | 0.760            | 0.000432         | 121               | 19.9              |
| Mid Point PCB TEQ              | 233             | 38.1             | 0.840            | 0.551            | 121               | 19.9              |
| Upper Bound PCB TEQ            | 233             | 38.1             | 0.840            | 0.597            | 121               | 19.9              |

| ALS Life Sciences              |                   |                  |                   |                   |
|--------------------------------|-------------------|------------------|-------------------|-------------------|
| Sample Analysis Summary Report |                   |                  |                   |                   |
| Sample Name                    | PLOT 114 - 4 JARS | PLOT 117 - 1 JAR | PLOT 123 - 3 JARS | PLOT 402 - 6 JARS |
| ALS Sample ID                  | L2756078-7        | L2756078-8       | L2756078-9        | L2756078-10       |
| Sample Size                    | 2.97              | 1.33             | 2.82              | 2.86              |
| Sample size units              | g dwt             | g dwt            | g dwt             | g dwt             |
| Percent Moisture               | 71.5%             | 70.0%            | 72.1%             | 72.7%             |
| Sample Matrix                  | Tissue            | Tissue           | Tissue            | Tissue            |
| Sampling Date                  | 25-May-24         | 25-May-24        | 25-May-24         | 25-May-24         |
| Extraction Date                | 6-Jul-24          | 6-Jul-24         | 6-Jul-24          | 6-Jul-24          |
| Target Analytes                | pg/g dwt          | pg/g dwt         | pg/g dwt          | pg/g dwt          |
| PCB-001                        | <2.6              | <2.4             | <1.7              | <1.9              |
| PCB-002                        | <2.0              | <3.5             | <1.8              | <1.3              |
| PCB-003                        | <2.2              | <2.9             | <2.0              | <2.3              |
| PCB-004                        | <13               | <25              | <13               | <9.1              |
| PCB-010                        | <7.5              | <15              | <7.6              | <5.3              |
| PCB-009                        | <7.9              | <16              | <8.1              | <5.6              |
| PCB-007                        | <7.8              | <16              | <7.9              | <5.5              |
| PCB-006                        | <7.8              | <16              | <8.0              | <5.6              |
| PCB-005                        | <8.3              | <17              | <8.5              | <5.9              |
| PCB-008                        | <7.3              | <15              | <7.5              | <5.2              |
| PCB-014                        | <16               | <20              | <15               | <9.9              |
| PCB-011                        | <130              | 173              | 122               | 107               |
| PCB-012/013                    | <15               | <19              | <15               | <9.7              |
| PCB-015                        | <17               | <22              | <17               | <11               |
| PCB-019                        | <4.0              | <8.5             | <4.4              | <3.0              |
| PCB-018/030                    | 24.2              | <6.8             | <4.6              | <4.2              |
| PCB-017                        | <5.8              | <7.5             | <4.6              | <2.9              |
| PCB-027                        | <3.3              | <5.5             | <3.4              | <2.1              |
| PCB-024                        | <3.8              | <6.3             | <3.9              | <2.4              |
| PCB-016                        | 14.0              | <8.6             | <5.3              | <3.3              |
| PCB-032                        | 7.22              | <5.1             | <3.1              | <1.9              |
| PCB-034                        | <4.7              | <6.4             | <3.3              | <2.8              |
| PCB-023                        | <4.6              | <6.4             | <3.3              | <2.7              |
| PCB-026/029                    | <5.2              | <5.9             | <3.1              | <2.5              |
| PCB-025                        | <4.2              | <5.8             | <3.0              | <2.5              |
| PCB-031                        | <22               | <11              | <6.4              | 7.41              |
| PCB-020/028                    | <4.5              | 42.1             | 85.1              | 14.1              |
| PCB-021/033                    | 22.5              | <5.9             | 6.45              | <4.0              |
| PCB-022                        | <12               | <6.7             | <3.4              | <2.9              |
| PCB-036                        | <4.1              | <5.6             | <2.9              | <2.4              |
| PCB-039                        | <4.9              | <6.8             | <3.5              | <2.9              |
| PCB-038                        | <4.7              | <6.5             | <3.3              | <2.8              |
| PCB-035                        | <4.8              | <6.6             | <3.4              | <2.8              |
| PCB-037                        | <37               | <13              | <13               | <2.9              |
| PCB-054                        | <1.2              | <2.5             | <1.8              | <0.50             |
| PCB-050/053                    | <2.4              | <5.6             | <3.1              | <2.2              |
| PCB-045/051                    | 4.72              | <5.9             | <3.3              | 3.67              |
| PCB-046                        | <2.8              | <6.4             | <3.6              | <2.6              |
| PCB-052                        | 42.8              | <22              | 22.7              | <11               |
| PCB-073                        | <1.8              | <4.1             | <2.3              | <1.6              |
| PCB-043                        | <2.9              | <6.7             | <3.7              | <2.7              |
| PCB-049/069                    | <9.6              | 6.62             | 5.88              | 4.79              |
| PCB-048                        | 3.08              | <5.6             | <3.1              | <2.2              |
| PCB-044/047/065                | <33               | <24              | <24               | <14               |
| PCB-059/062/075                | <6.4              | <4.1             | <2.3              | <1.6              |
| PCB-042                        | <2.8              | <6.5             | <3.6              | <2.6              |
| PCB-040/041/071                | <7.4              | <5.7             | <3.2              | <2.3              |
| PCB-064                        | <13               | <5.2             | <3.1              | <1.6              |
| PCB-072                        | <3.6              | <4.4             | <3.5              | <1.5              |
| PCB-068                        | <3.6              | <4.4             | <3.5              | <1.5              |
| PCB-057                        | <3.8              | <4.6             | <3.7              | <1.6              |
| PCB-058                        | <3.7              | <4.4             | <3.5              | <1.5              |
| PCB-067                        | <3.1              | <3.8             | <3.0              | <1.3              |
| PCB-063                        | <14               | <4.4             | <4.0              | <1.5              |
| PCB-061/070/074/076            | 677               | 147              | 242               | <19               |
| PCB-066                        | <140              | 34.2             | 73.4              | <5.3              |
| PCB-055                        | <4.0              | <4.8             | <3.8              | <1.7              |
| PCB-056                        | <16               | <4.4             | <3.4              | <1.5              |
| PCB-060                        | 113               | 18.5             | <36               | <1.6              |
| PCB-080                        | <3.0              | <3.7             | <2.9              | <1.3              |
| PCB-079                        | <8.5              | <3.9             | <3.1              | <1.3              |
| PCB-078                        | <3.9              | <4.7             | <3.8              | <1.6              |
| PCB-081                        | 16.9              | <5.1             | <4.9              | <1.7              |
| PCB-077                        | 277               | 64.7             | 50.4              | <5.5              |
| PCB-104                        | <2.3              | <4.3             | <2.2              | <2.0              |
| PCB-096                        | <3.1              | <5.9             | <3.1              | <3.1              |
| PCB-103                        | <5.4              | <9.6             | <6.9              | <3.6              |
| PCB-094                        | <5.8              | <10              | <7.5              | <3.9              |
| PCB-095                        | 60.3              | <15              | 22.9              | <4.8              |
| PCB-093/098/100/102            | <5.1              | <9.1             | <6.5              | <3.4              |

| ALS Life Sciences              |                   |                  |                   |                   |
|--------------------------------|-------------------|------------------|-------------------|-------------------|
| Sample Analysis Summary Report |                   |                  |                   |                   |
| Sample Name                    | PLOT 114 - 4 JARS | PLOT 117 - 1 JAR | PLOT 123 - 3 JARS | PLOT 402 - 6 JARS |
| ALS Sample ID                  | L2756078-7        | L2756078-8       | L2756078-9        | L2756078-10       |
| Sample Size                    | 2.97              | 1.33             | 2.82              | 2.86              |
| Sample size units              | g dwt             | g dwt            | g dwt             | g dwt             |
| Percent Moisture               | 71.5%             | 70.0%            | 72.1%             | 72.7%             |
| Sample Matrix                  | Tissue            | Tissue           | Tissue            | Tissue            |
| Sampling Date                  | 25-May-24         | 25-May-24        | 25-May-24         | 25-May-24         |
| Extraction Date                | 6-Jul-24          | 6-Jul-24         | 6-Jul-24          | 6-Jul-24          |
| Target Analytes                | pg/g dwt          | pg/g dwt         | pg/g dwt          | pg/g dwt          |
| PCB-088/091                    | <10               | <9.8             | <7.1              | <3.7              |
| PCB-084                        | <11               | <10              | <7.3              | <3.9              |
| PCB-089                        | <6.8              | <12              | <8.8              | <4.6              |
| PCB-121                        | <3.8              | <6.9             | <4.9              | <2.6              |
| PCB-092                        | 58.3              | <11              | 13.2              | <4.2              |
| PCB-090/101/113                | 209               | 45.5             | 53.8              | <6.4              |
| PCB-083/099                    | 714               | 142              | 213               | 12.0              |
| PCB-112                        | <3.6              | <6.4             | <4.6              | <2.4              |
| PCB-086/087/097/109/119/125    | 93.6              | <25              | 26.9              | <4.9              |
| PCB-085/110/115/116/117        | 508               | 108              | 125               | <14               |
| PCB-082                        | <7.0              | <12              | <9.0              | <4.7              |
| PCB-111                        | <3.6              | <6.5             | <4.6              | <2.4              |
| PCB-120                        | <14               | <6.6             | <4.7              | <2.5              |
| PCB-108/124                    | <23               | <7.9             | 6.94              | <2.4              |
| PCB-107                        | 274               | 56.3             | 71.3              | <2.3              |
| PCB-123                        | 23.7              | <6.7             | <6.8              | <2.8              |
| PCB-106                        | <8.0              | <6.6             | <6.6              | <2.6              |
| PCB-118                        | 12000             | 2120             | 2780              | 138               |
| PCB-122                        | <9.6              | <7.8             | <7.8              | <3.1              |
| PCB-114                        | <170              | <23              | <34               | <2.8              |
| PCB-105                        | 1980              | 386              | 565               | <25               |
| PCB-127                        | 11.3              | <5.8             | <5.8              | <2.3              |
| PCB-126                        | 414               | 72.1             | 99.4              | <6.1              |
| PCB-155                        | <0.95             | <1.3             | <1.1              | <0.55             |
| PCB-152                        | <1.9              | <2.6             | <2.2              | <1.1              |
| PCB-150                        | <1.4              | <1.9             | <1.7              | <0.81             |
| PCB-136                        | <11               | <2.3             | <2.8              | <0.95             |
| PCB-145                        | <1.6              | <2.2             | <1.9              | <0.93             |
| PCB-148                        | <2.2              | <2.9             | <2.6              | <1.2              |
| PCB-135/151                    | 198               | <27              | 41.5              | <1.6              |
| PCB-154                        | <1.7              | <2.3             | <2.0              | <0.98             |
| PCB-144                        | 15.8              | <3.0             | <2.6              | <1.3              |
| PCB-147/149                    | 335               | <8.6             | <6.5              | <2.7              |
| PCB-134/143                    | <14               | <11              | <8.1              | <3.4              |
| PCB-139/140                    | 32.9              | <8.3             | <6.2              | <2.6              |
| PCB-131                        | <10               | <11              | <8.1              | <3.3              |
| PCB-142                        | <10               | <11              | <8.1              | <3.4              |
| PCB-132                        | 110               | 22.2             | <24               | <3.1              |
| PCB-133                        | <120              | 16.4             | 41.9              | <3.0              |
| PCB-165                        | <15               | <7.2             | <5.4              | <2.2              |
| PCB-146                        | 728               | 126              | 193               | 6.80              |
| PCB-161                        | <5.7              | <5.9             | <4.4              | <1.8              |
| PCB-153/168                    | 10800             | 1610             | 2160              | 131               |
| PCB-141                        | <200              | <32              | 52.9              | <3.2              |
| PCB-130                        | 422               | 86.5             | 103               | 5.43              |
| PCB-137/164                    | 149               | 38.2             | 38.5              | <3.0              |
| PCB-129/138/163                | 9860              | 1610             | 1810              | 118               |
| PCB-160                        | <6.4              | <6.6             | <4.9              | <2.0              |
| PCB-158                        | 592               | 75.5             | 116               | <4.3              |
| PCB-128/166                    | 972               | 150              | 173               | 11.2              |
| PCB-159                        | <16               | <5.8             | <4.3              | <1.8              |
| PCB-162                        | 99.8              | 26.2             | <17               | <1.9              |
| PCB-167                        | 1710              | 297              | 315               | 19.3              |
| PCB-156/157                    | 3410              | 636              | 643               | 36.6              |
| PCB-169                        | 39.3              | <6.6             | 34.5              | <4.2              |
| PCB-188                        | <4.5              | <4.0             | <2.3              | <1.6              |
| PCB-179                        | 45.6              | <4.9             | <5.1              | <2.1              |
| PCB-184                        | <5.1              | <4.5             | <2.7              | <1.9              |
| PCB-176                        | <11               | <4.7             | <2.8              | <2.0              |
| PCB-186                        | <5.7              | <5.1             | <3.1              | <2.2              |
| PCB-178                        | 1610              | 272              | 285               | <19               |
| PCB-175                        | 43.4              | <9.3             | <10               | <2.8              |
| PCB-187                        | 8210              | 1140             | 1380              | 94.0              |
| PCB-182                        | <6.6              | <5.8             | <3.5              | <2.5              |
| PCB-183                        | 1600              | <270             | 430               | 15.5              |
| PCB-185                        | 57.9              | <6.9             | 11.8              | <3.0              |
| PCB-174                        | 211               | 30.5             | <28               | <3.3              |
| PCB-177                        | 4260              | 668              | 663               | 44.0              |
| PCB-181                        | <22               | <6.6             | <4.0              | <2.8              |
| PCB-171/173                    | 458               | <76              | <83               | <25               |
| PCB-172                        | 1820              | 359              | 399               | <12               |



| ALS Life Sciences              |                   |                  |                   |                   |
|--------------------------------|-------------------|------------------|-------------------|-------------------|
| Sample Analysis Summary Report |                   |                  |                   |                   |
| Sample Name                    | PLOT 114 - 4 JARS | PLOT 117 - 1 JAR | PLOT 123 - 3 JARS | PLOT 402 - 6 JARS |
| ALS Sample ID                  | L2756078-7        | L2756078-8       | L2756078-9        | L2756078-10       |
| Sample Size                    | 2.97              | 1.33             | 2.82              | 2.86              |
| Sample size units              | g dwt             | g dwt            | g dwt             | g dwt             |
| Percent Moisture               | 71.5%             | 70.0%            | 72.1%             | 72.7%             |
| Sample Matrix                  | Tissue            | Tissue           | Tissue            | Tissue            |
| Sampling Date                  | 25-May-24         | 25-May-24        | 25-May-24         | 25-May-24         |
| Extraction Date                | 6-Jul-24          | 6-Jul-24         | 6-Jul-24          | 6-Jul-24          |
| Target Analytes                | pg/g dwt          | pg/g dwt         | pg/g dwt          | pg/g dwt          |
| PCB-192                        | <6.3              | <5.2             | <3.2              | <2.2              |
| PCB-180/193                    | 25500             | 3720             | 4310              | 255               |
| PCB-191                        | 98.3              | <16              | <18               | <1.9              |
| PCB-170                        | 3820              | 508              | 677               | 32.0              |
| PCB-190                        | 3270              | 574              | 502               | <40               |
| PCB-189                        | 946               | 171              | 166               | <11               |
| PCB-202                        | 685               | <120             | 119               | 13.3              |
| PCB-201                        | 89.2              | <16              | 15.7              | <1.7              |
| PCB-204                        | <1.7              | <1.6             | <1.2              | <0.97             |
| PCB-197                        | 59.0              | 14.3             | <14               | <1.1              |
| PCB-200                        | 12.3              | <1.7             | <1.3              | <1.0              |
| PCB-198/199                    | 12200             | 1990             | 1570              | 186               |
| PCB-196                        | 754               | <78              | 146               | <3.8              |
| PCB-203                        | 5490              | 828              | 807               | <76               |
| PCB-195                        | 2680              | 388              | <280              | <36               |
| PCB-194                        | 13800             | 2380             | 1910              | 168               |
| PCB-205                        | 776               | 150              | 117               | <12               |
| PCB-208                        | 320               | 62.6             | <48               | <32               |
| PCB-207                        | <110              | <11              | 30.9              | <2.6              |
| PCB-206                        | 2960              | 511              | 437               | 77.9              |
| PCB-209                        | 289               | 69.4             | 126               | 26.8              |
| Extraction Standards           | % Rec             | % Rec            | % Rec             | % Rec             |
| 13C12-PCB-001                  | 28                | 40               | 36                | 52                |
| 13C12-PCB-003                  | 29                | 39               | 40                | 55                |
| 13C12-PCB-004                  | 41                | 51               | 48                | 69                |
| 13C12-PCB-015                  | 43                | 50               | 46                | 66                |
| 13C12-PCB-019                  | 45                | 53               | 50                | 69                |
| 13C12-PCB-037                  | 51                | 63               | 55                | 64                |
| 13C12-PCB-054                  | 49                | 56               | 53                | 66                |
| 13C12-PCB-081                  | 63                | 74               | 62                | 84                |
| 13C12-PCB-077                  | 65                | 73               | 60                | 83                |
| 13C12-PCB-104                  | 57                | 71               | 59                | 86                |
| 13C12-PCB-123                  | 67                | 81               | 64                | 86                |
| 13C12-PCB-118                  | 77                | 94               | 78                | 98                |
| 13C12-PCB-114                  | 65                | 79               | 63                | 86                |
| 13C12-PCB-105                  | 71                | 83               | 68                | 91                |
| 13C12-PCB-126                  | 72                | 96               | 67                | 88                |
| 13C12-PCB-155                  | 72                | 78               | 66                | 86                |
| 13C12-PCB-167                  | 68                | 77               | 64                | 87                |
| 13C12-PCB-156/157              | 65                | 76               | 62                | 81                |
| 13C12-PCB-169                  | 83                | 115              | 62                | 84                |
| 13C12-PCB-188                  | 65                | 76               | 61                | 82                |
| 13C12-PCB-189                  | 65                | 77               | 58                | 78                |
| 13C12-PCB-202                  | 70                | 80               | 66                | 87                |
| 13C12-PCB-205                  | 70                | 84               | 67                | 91                |
| 13C12-PCB-208                  | 67                | 80               | 75                | 79                |
| 13C12-PCB-206                  | 70                | 85               | 71                | 103               |
| 13C12-PCB-209                  | 79                | 93               | 78                | 103               |
| Cleanup Standards              |                   |                  |                   |                   |
| 13C12-PCB-028                  | 56                | 54               | 55                | 54                |
| 13C12-PCB-111                  | 72                | 72               | 70                | 71                |
| 13C12-PCB-178                  | 71                | 73               | 65                | 70                |

| ALS Life Sciences              |                   |                  |                   |                   |
|--------------------------------|-------------------|------------------|-------------------|-------------------|
| Sample Analysis Summary Report |                   |                  |                   |                   |
| Sample Name                    | PLOT 114 - 4 JARS | PLOT 117 - 1 JAR | PLOT 123 - 3 JARS | PLOT 402 - 6 JARS |
| ALS Sample ID                  | L2756078-7        | L2756078-8       | L2756078-9        | L2756078-10       |
| Sample Size                    | 2.97              | 1.33             | 2.82              | 2.86              |
| Sample size units              | g dwt             | g dwt            | g dwt             | g dwt             |
| Percent Moisture               | 71.5%             | 70.0%            | 72.1%             | 72.7%             |
| Sample Matrix                  | Tissue            | Tissue           | Tissue            | Tissue            |
| Sampling Date                  | 25-May-24         | 25-May-24        | 25-May-24         | 25-May-24         |
| Extraction Date                | 6-Jul-24          | 6-Jul-24         | 6-Jul-24          | 6-Jul-24          |
| Target Analytes                | pg/g dwt          | pg/g dwt         | pg/g dwt          | pg/g dwt          |
| Homologue Group Totals         | pg/g dwt          | pg/g dwt         | pg/g dwt          | pg/g dwt          |
| Total MonoCB                   | 2.60              | 3.50             | <1.7              | 5.50              |
| Total DiCB                     | 130               | 173              | 122               | 107               |
| Total TriCB                    | 150               | 72.9             | 116               | 29.7              |
| Total TetraCB                  | 1380              | 332              | 466               | 63.3              |
| Total PentaCB                  | 16600             | 3000             | 4010              | 214               |
| Total HexaCB                   | 29800             | 4760             | 5770              | 345               |
| Total HeptaCB                  | 52000             | 7810             | 8970              | 526               |
| Total OctaCB                   | 36500             | 5960             | 4980              | 497               |
| Total NonaCB                   | 3390              | 585              | 516               | 77.9              |
| DecaCB                         | 289               | 69.4             | 126               | 26.8              |
| Total PCB                      | 140000            | 22800            | 25100             | 1890              |
| Estimated Aroclor Conc.        | ng/g              | ng/g             | ng/g              | ng/g              |
| Aroclor 1016                   | <1                | <1               | <1                | <1                |
| Aroclor 1221                   | <1                | <1               | <1                | <1                |
| Aroclor 1232                   | <1                | <1               | <1                | <1                |
| Aroclor 1242                   | <1                | <1               | <1                | <1                |
| Aroclor 1248                   | <1                | <1               | <1                | <1                |
| Aroclor 1254                   | 29.5              | 5.34             | 6.25              | 0.404             |
| Aroclor 1260                   | 27.7              | 4.48             | 5.26              | 0.372             |
| Aroclor 1262                   | 82.8              | 13.0             | 13.6              | 1.114             |
| Toxic Equivalency - (WHO 2005) |                   |                  |                   |                   |
| Lower Bound PCB TEQ            | 43.2              | 7.32             | 11.1              | 0.00582           |
| Mid Point PCB TEQ              | 43.2              | 7.53             | 11.1              | 0.744             |
| Upper Bound PCB TEQ            | 43.2              | 7.53             | 11.1              | 0.744             |

| ALS Life Sciences              |                 |                  |                  |                  |                   |                   |
|--------------------------------|-----------------|------------------|------------------|------------------|-------------------|-------------------|
| Sample Analysis Summary Report |                 |                  |                  |                  |                   |                   |
| Sample Name                    | PLOT 4 - 6 JARS | PLOT 11 - 4 JARS | PLOT 70 - 3 JARS | PLOT 71 - 5 JARS | PLOT 109 - 5 JARS | PLOT 110 - 4 JARS |
| ALS Sample ID                  | L2756078-1      | L2756078-2       | L2756078-3       | L2756078-4       | L2756078-5        | L2756078-6        |
| Sample Size                    | 10.25           | 10.31            | 10.06            | 10.11            | 10.3              | 10.37             |
| Sample size units              | g wwt           | g wwt            | g wwt            | g wwt            | g wwt             | g wwt             |
| Percent Moisture               | 72.00%          | 70.94%           | 70.85%           | 72.61%           | 71.90%            | 71.51%            |
| Sample Matrix                  | Tissue          | Tissue           | Tissue           | Tissue           | Tissue            | Tissue            |
| Sampling Date                  | 25-May-24       | 25-May-24        | 25-May-24        | 25-May-24        | 25-May-24         | 25-May-24         |
| Extraction Date                | 6-Jul-24        | 6-Jul-24         | 6-Jul-24         | 6-Jul-24         | 6-Jul-24          | 6-Jul-24          |
| Target Analytes                | pg/g wwt        | pg/g wwt         | pg/g wwt         | pg/g wwt         | pg/g wwt          | pg/g wwt          |
| PCB-001                        | 0.905           | 1.04             | <0.44            | <0.40            | <0.81             | <0.57             |
| PCB-002                        | <0.57           | <0.41            | <0.49            | <0.44            | <1.0              | <0.61             |
| PCB-003                        | <0.61           | 1.61             | <0.55            | <0.63            | <1.3              | <0.69             |
| PCB-004                        | <4.0            | <3.8             | <3.4             | <3.7             | <7.0              | <3.2              |
| PCB-010                        | <2.4            | <2.2             | <2.0             | <2.2             | <3.5              | <1.8              |
| PCB-009                        | <2.5            | <2.3             | <2.1             | <2.3             | <3.7              | <1.9              |
| PCB-007                        | <2.6            | <2.4             | <2.1             | <2.4             | <3.6              | <1.8              |
| PCB-006                        | <2.5            | <2.3             | <2.1             | <2.3             | <3.7              | <1.8              |
| PCB-005                        | <2.9            | <2.7             | <2.4             | <2.7             | <3.9              | <2.0              |
| PCB-008                        | <2.2            | <2.0             | <1.8             | <2.0             | <3.4              | <1.7              |
| PCB-014                        | <3.4            | <3.9             | <2.8             | <2.6             | <7.9              | <4.2              |
| PCB-011                        | 26.8            | 34.3             | 32.3             | 39.1             | 36.3              | 25.6              |
| PCB-012/013                    | <3.3            | <3.8             | <2.7             | <2.6             | <7.7              | <4.1              |
| PCB-015                        | <3.8            | <4.3             | <3.0             | <2.9             | <7.6              | <4.3              |
| PCB-019                        | <1.2            | <1.2             | <0.97            | <0.96            | <2.1              | <0.96             |
| PCB-018/030                    | <1.8            | 1.98             | 1.71             | 1.28             | 3.15              | <1.4              |
| PCB-017                        | <1.3            | <1.3             | <0.85            | <1.0             | <1.5              | <0.75             |
| PCB-027                        | <1.0            | <0.96            | <0.65            | <0.79            | <1.1              | <0.56             |
| PCB-024                        | <1.1            | <1.1             | <0.72            | <0.88            | <1.2              | <0.64             |
| PCB-016                        | <1.5            | <1.4             | <0.96            | <1.2             | <1.7              | <0.86             |
| PCB-032                        | <0.91           | <0.87            | <0.59            | <0.71            | <0.98             | <0.51             |
| PCB-034                        | <1.7            | <1.0             | <0.97            | <1.0             | <1.7              | <1.0              |
| PCB-023                        | <1.7            | <0.98            | <0.92            | <0.98            | <1.7              | <1.0              |
| PCB-026/029                    | <1.7            | <0.94            | <0.89            | <0.94            | <1.5              | <1.4              |
| PCB-025                        | <1.6            | <0.92            | <0.87            | <0.92            | <1.5              | <0.92             |
| PCB-031                        | 8.83            | 3.11             | <2.0             | <1.9             | <4.9              | <2.7              |
| PCB-020/028                    | 134             | 19.0             | 9.19             | <4.2             | 64.4              | 103               |
| PCB-021/033                    | 5.93            | <2.2             | <0.90            | <1.1             | <2.9              | <2.3              |
| PCB-022                        | <3.0            | <1.1             | <1.0             | <1.1             | <1.7              | 2.78              |
| PCB-036                        | <1.5            | <0.90            | <0.84            | <0.90            | <1.5              | <0.89             |
| PCB-039                        | <1.9            | <1.1             | <1.0             | <1.1             | <1.8              | <1.1              |
| PCB-038                        | <1.8            | <1.0             | <0.98            | <1.0             | <1.7              | <1.0              |
| PCB-035                        | <1.8            | <1.1             | <1.0             | <1.1             | <1.7              | <1.0              |
| PCB-037                        | 25.7            | 10.2             | <1.0             | <1.1             | 15.7              | 8.55              |
| PCB-054                        | <0.45           | <0.26            | <0.34            | <0.45            | <0.91             | <0.42             |
| PCB-050/053                    | <0.95           | <0.81            | <0.86            | <1.0             | <1.6              | <0.69             |
| PCB-045/051                    | <1.0            | <0.85            | <0.90            | <1.1             | <1.7              | <0.73             |
| PCB-046                        | <1.1            | <0.92            | <0.98            | <1.2             | <1.8              | <0.79             |
| PCB-052                        | 24.9            | 9.54             | <5.0             | <3.8             | 14.4              | 20.6              |
| PCB-073                        | <0.68           | <0.58            | <0.62            | <0.73            | <1.1              | <0.50             |
| PCB-043                        | <1.1            | <0.91            | <0.97            | <1.1             | <1.9              | <0.82             |
| PCB-049/069                    | <6.1            | <1.4             | <0.76            | <0.90            | 5.58              | 7.91              |
| PCB-048                        | 1.42            | <0.83            | <0.89            | <1.0             | <1.6              | <0.69             |
| PCB-044/047/065                | 22.0            | 6.47             | 4.97             | <2.9             | <17               | 172               |
| PCB-059/062/075                | <3.3            | <0.82            | <0.64            | <0.75            | <3.7              | 21.6              |
| PCB-042                        | 2.14            | <0.93            | <0.99            | <1.2             | <1.8              | <0.80             |
| PCB-040/041/071                | 3.25            | 1.37             | <0.90            | <1.1             | <1.6              | <0.70             |
| PCB-064                        | <8.0            | <2.3             | <0.94            | <0.78            | <4.2              | 4.23              |
| PCB-072                        | <1.6            | <0.92            | <0.55            | <0.40            | <1.8              | 6.69              |
| PCB-068                        | <1.5            | <0.88            | <0.53            | <0.39            | <1.8              | <1.7              |
| PCB-057                        | <1.7            | <0.96            | <0.57            | <0.42            | <1.9              | <1.1              |
| PCB-058                        | <1.6            | <0.91            | <0.55            | <0.40            | <1.8              | <1.1              |
| PCB-067                        | <1.4            | <0.81            | <0.49            | <0.36            | <1.6              | <0.92             |
| PCB-063                        | 10.7            | <1.2             | <0.53            | <0.39            | 5.84              | 22.7              |
| PCB-061/070/074/076            | 808             | 129              | <7.7             | 5.41             | 393               | 239               |
| PCB-066                        | 208             | 24.3             | <2.4             | <1.1             | 88.7              | 113               |
| PCB-055                        | <1.7            | <0.98            | <0.59            | <0.43            | <2.0              | <1.2              |
| PCB-056                        | <13             | 2.93             | <0.53            | <0.39            | 8.89              | <1.3              |
| PCB-060                        | 139             | 17.5             | 1.94             | 1.40             | 61.1              | 31.4              |
| PCB-080                        | <1.3            | <0.77            | <0.46            | <0.34            | <1.5              | <0.89             |
| PCB-079                        | 4.72            | <0.94            | <0.49            | <0.36            | <2.1              | 3.74              |
| PCB-078                        | <1.8            | <1.0             | <0.62            | <0.45            | <2.0              | <1.2              |
| PCB-081                        | <21             | <4.7             | <0.62            | <0.46            | 10.7              | <2.5              |
| PCB-077                        | 235             | 68.6             | <1.2             | <0.79            | 103               | 49.2              |
| PCB-104                        | <0.66           | <0.63            | <0.59            | <0.60            | <0.82             | <0.51             |
| PCB-096                        | <0.80           | <0.88            | <0.79            | <0.89            | <1.1              | <0.72             |
| PCB-103                        | <1.7            | <1.3             | <0.96            | <0.89            | <1.6              | <1.3              |
| PCB-094                        | <1.9            | <1.4             | <1.0             | <0.97            | <1.7              | <1.4              |
| PCB-095                        | 52.9            | 12.2             | <1.2             | <1.1             | 21.7              | <8.9              |
| PCB-093/098/100/102            | <1.6            | <1.3             | <0.90            | <0.84            | <1.5              | <5.0              |

| ALS Life Sciences              |                 |                  |                  |                  |                   |                   |
|--------------------------------|-----------------|------------------|------------------|------------------|-------------------|-------------------|
| Sample Analysis Summary Report |                 |                  |                  |                  |                   |                   |
| Sample Name                    | PLOT 4 - 6 JARS | PLOT 11 - 4 JARS | PLOT 70 - 3 JARS | PLOT 71 - 5 JARS | PLOT 109 - 5 JARS | PLOT 110 - 4 JARS |
| ALS Sample ID                  | L2756078-1      | L2756078-2       | L2756078-3       | L2756078-4       | L2756078-5        | L2756078-6        |
| Sample Size                    | 10.25           | 10.31            | 10.06            | 10.11            | 10.3              | 10.37             |
| Sample size units              | g wwt           | g wwt            | g wwt            | g wwt            | g wwt             | g wwt             |
| Percent Moisture               | 72.00%          | 70.94%           | 70.85%           | 72.61%           | 71.90%            | 71.51%            |
| Sample Matrix                  | Tissue          | Tissue           | Tissue           | Tissue           | Tissue            | Tissue            |
| Sampling Date                  | 25-May-24       | 25-May-24        | 25-May-24        | 25-May-24        | 25-May-24         | 25-May-24         |
| Extraction Date                | 6-Jul-24        | 6-Jul-24         | 6-Jul-24         | 6-Jul-24         | 6-Jul-24          | 6-Jul-24          |
| Target Analytes                | pg/g wwt        | pg/g wwt         | pg/g wwt         | pg/g wwt         | pg/g wwt          | pg/g wwt          |
| PCB-088/091                    | 8.23            | <1.4             | <0.98            | <0.91            | <3.5              | 4.44              |
| PCB-084                        | 12.3            | <2.3             | <1.0             | <0.95            | <4.6              | <1.4              |
| PCB-089                        | <2.2            | <1.7             | <1.2             | <1.1             | <2.0              | <1.6              |
| PCB-121                        | <1.2            | <0.96            | <0.69            | <0.64            | <1.1              | <0.92             |
| PCB-092                        | 38.2            | 9.70             | <1.1             | <1.0             | 16.4              | 53.1              |
| PCB-090/101/113                | 206             | 38.5             | <2.6             | <1.1             | 89.8              | 144               |
| PCB-083/099                    | 772             | 100              | 7.36             | 2.98             | 307               | 728               |
| PCB-112                        | <1.2            | <0.91            | <0.65            | <0.61            | <1.1              | <0.86             |
| PCB-086/087/097/109/119/125    | 101             | 17.7             | <0.77            | <0.71            | 43.8              | 37.8              |
| PCB-085/110/115/116/117        | 486             | 87.1             | <2.6             | 2.05             | 222               | 181               |
| PCB-082                        | 21.7            | 3.75             | <1.3             | <1.2             | <5.6              | <1.7              |
| PCB-111                        | <2.3            | <0.94            | <0.68            | <0.63            | <1.1              | <4.6              |
| PCB-120                        | <8.9            | <1.3             | <0.65            | <0.61            | <6.5              | 17.5              |
| PCB-108/124                    | 24.6            | <6.4             | <0.85            | <0.75            | 10.9              | <7.5              |
| PCB-107                        | 253             | 36.3             | <0.96            | <0.71            | 121               | 164               |
| PCB-123                        | 33.1            | <3.9             | <0.95            | <0.91            | 11.9              | <13               |
| PCB-106                        | <2.5            | <1.4             | <0.92            | <0.81            | <3.0              | <1.0              |
| PCB-118                        | 11700           | 2200             | 37.7             | <20              | 6930              | 3170              |
| PCB-122                        | <33             | <1.8             | <1.1             | <0.99            | <3.5              | <1.2              |
| PCB-114                        | 219             | <27              | <0.98            | <0.88            | 83.8              | 59.0              |
| PCB-105                        | 2280            | 312              | <6.2             | 3.94             | 1030              | 539               |
| PCB-127                        | <7.2            | <1.4             | <0.89            | <0.79            | <3.3              | <1.0              |
| PCB-126                        | 781             | 124              | 2.20             | <1.4             | 366               | <70               |
| PCB-155                        | <0.26           | <0.28            | <0.28            | <0.41            | 0.386             | <0.34             |
| PCB-152                        | <0.52           | <0.54            | <0.56            | <0.79            | <0.72             | <0.66             |
| PCB-150                        | <0.41           | <0.42            | <0.43            | <0.61            | <0.54             | <0.50             |
| PCB-136                        | 13.3            | <2.5             | <0.51            | <0.72            | 4.98              | 1.37              |
| PCB-145                        | <0.45           | <0.48            | <0.49            | <0.70            | <0.62             | <0.57             |
| PCB-148                        | <0.62           | <0.65            | <0.67            | <0.95            | <0.83             | 2.34              |
| PCB-135/151                    | 188             | 39.5             | <0.93            | <1.1             | 59.9              | 78.8              |
| PCB-154                        | <0.40           | <0.42            | <0.43            | <0.61            | <0.65             | 29.7              |
| PCB-144                        | 21.0            | 3.79             | <0.68            | <0.97            | 7.61              | 4.54              |
| PCB-147/149                    | 314             | 59.2             | <2.2             | <1.5             | <3.0              | 155               |
| PCB-134/143                    | 9.83            | 2.94             | <0.95            | <1.3             | <4.7              | <3.2              |
| PCB-139/140                    | 23.2            | <3.8             | <0.75            | <1.0             | 14.1              | 15.8              |
| PCB-131                        | <3.9            | <2.6             | <0.97            | <1.3             | <3.7              | <3.2              |
| PCB-142                        | <3.8            | <2.6             | <0.95            | <1.3             | <3.7              | <3.2              |
| PCB-132                        | 115             | 19.7             | <0.90            | <1.2             | 48.1              | 24.3              |
| PCB-133                        | 111             | <5.7             | <0.85            | <1.1             | 30.0              | 103               |
| PCB-165                        | 8.93            | <1.7             | <0.62            | <0.83            | 5.28              | 6.71              |
| PCB-146                        | 729             | 87.7             | <2.5             | <1.5             | 299               | 571               |
| PCB-161                        | <2.2            | <1.5             | <0.54            | <0.72            | <2.0              | <1.8              |
| PCB-153/168                    | 8270            | 1700             | 36.0             | 19.6             | 6250              | 3910              |
| PCB-141                        | 188             | 46.0             | <0.76            | <1.0             | 110               | 77.1              |
| PCB-130                        | 382             | 66.4             | <0.95            | <1.2             | 207               | 200               |
| PCB-137/164                    | 146             | 25.7             | 0.813            | <0.91            | 67.4              | 62.5              |
| PCB-129/138/163                | 8050            | 1540             | 32.3             | 17.2             | 4710              | 2930              |
| PCB-160                        | <2.4            | <1.6             | <0.61            | <0.81            | <2.3              | <2.0              |
| PCB-158                        | 421             | 92.3             | <1.5             | <0.65            | 289               | 157               |
| PCB-128/166                    | 699             | 143              | 2.91             | <1.2             | 424               | 240               |
| PCB-159                        | 13.4            | 3.94             | <0.56            | <0.75            | 7.47              | <3.2              |
| PCB-162                        | 71.5            | 13.8             | <0.58            | <0.79            | 41.4              | 23.6              |
| PCB-167                        | 1360            | 329              | <3.3             | <2.3             | 866               | 276               |
| PCB-156/157                    | 2950            | 728              | 7.79             | <3.3             | 1780              | 551               |
| PCB-169                        | <190            | <39              | <0.75            | <0.84            | <110              | <31               |
| PCB-188                        | <0.96           | <0.81            | <0.31            | <0.55            | <1.1              | <1.2              |
| PCB-179                        | 32.2            | 6.58             | <0.37            | <0.66            | 9.73              | 4.78              |
| PCB-184                        | <1.1            | <0.91            | <0.35            | <0.62            | <1.2              | <1.3              |
| PCB-176                        | 14.2            | 2.64             | <0.37            | <0.66            | <3.4              | <1.4              |
| PCB-186                        | <1.2            | <1.0             | <0.40            | <0.72            | <1.3              | <1.5              |
| PCB-178                        | 1310            | 268              | <5.2             | 3.00             | 612               | 422               |
| PCB-175                        | 51.8            | <6.8             | <0.52            | <0.92            | <14               | 15.8              |
| PCB-187                        | 7840            | 1370             | 20.6             | 13.2             | 3760              | 2080              |
| PCB-182                        | <1.4            | <1.8             | <0.47            | <0.84            | <1.5              | <1.7              |
| PCB-183                        | 1770            | 245              | <4.2             | <2.7             | 675               | 491               |
| PCB-185                        | <37             | 10.4             | <0.56            | <1.0             | 14.6              | <16               |
| PCB-174                        | 201             | 37.7             | <0.49            | <0.88            | 69.6              | 52.9              |
| PCB-177                        | 3460            | 837              | <8.9             | <4.0             | 1680              | 960               |
| PCB-181                        | <18             | <5.4             | <0.55            | <0.99            | <14               | <3.1              |
| PCB-171/173                    | 414             | <95              | <1.6             | <0.96            | 262               | 136               |
| PCB-172                        | 2030            | 268              | <4.2             | <2.2             | 702               | 367               |



| ALS Life Sciences              |                 |                  |                  |                  |                   |                   |
|--------------------------------|-----------------|------------------|------------------|------------------|-------------------|-------------------|
| Sample Analysis Summary Report |                 |                  |                  |                  |                   |                   |
| Sample Name                    | PLOT 4 - 6 JARS | PLOT 11 - 4 JARS | PLOT 70 - 3 JARS | PLOT 71 - 5 JARS | PLOT 109 - 5 JARS | PLOT 110 - 4 JARS |
| ALS Sample ID                  | L2756078-1      | L2756078-2       | L2756078-3       | L2756078-4       | L2756078-5        | L2756078-6        |
| Sample Size                    | 10.25           | 10.31            | 10.06            | 10.11            | 10.3              | 10.37             |
| Sample size units              | g wwt           | g wwt            | g wwt            | g wwt            | g wwt             | g wwt             |
| Percent Moisture               | 72.00%          | 70.94%           | 70.85%           | 72.61%           | 71.90%            | 71.51%            |
| Sample Matrix                  | Tissue          | Tissue           | Tissue           | Tissue           | Tissue            | Tissue            |
| Sampling Date                  | 25-May-24       | 25-May-24        | 25-May-24        | 25-May-24        | 25-May-24         | 25-May-24         |
| Extraction Date                | 6-Jul-24        | 6-Jul-24         | 6-Jul-24         | 6-Jul-24         | 6-Jul-24          | 6-Jul-24          |
| Target Analytes                | pg/g wwt        | pg/g wwt         | pg/g wwt         | pg/g wwt         | pg/g wwt          | pg/g wwt          |
| PCB-192                        | <1.4            | <1.2             | <0.45            | <0.80            | <1.9              | <1.5              |
| PCB-180/193                    | 20900           | 5030             | 53.2             | <25              | 13100             | 4520              |
| PCB-191                        | <39             | <7.4             | <0.38            | <0.68            | <17               | 22.4              |
| PCB-170                        | 3160            | 758              | 9.40             | 4.92             | 1980              | 873               |
| PCB-190                        | 2640            | 726              | 7.46             | <4.6             | 1530              | 433               |
| PCB-189                        | 689             | 198              | 2.97             | <1.8             | 420               | 115               |
| PCB-202                        | 495             | 145              | 4.81             | 1.63             | 260               | 114               |
| PCB-201                        | 77.0            | 17.1             | <0.23            | <0.35            | 33.7              | <19               |
| PCB-204                        | <0.42           | <0.23            | <0.23            | <0.35            | <0.91             | <0.41             |
| PCB-197                        | 47.5            | 12.3             | <0.47            | <0.39            | 26.3              | 13.2              |
| PCB-200                        | <7.4            | <1.2             | <0.25            | <0.38            | 2.99              | 1.26              |
| PCB-198/199                    | 9380            | 1970             | <27              | 16.1             | 4830              | 1380              |
| PCB-196                        | 701             | 114              | 2.54             | <0.78            | 320               | 181               |
| PCB-203                        | 4160            | 1090             | 12.9             | <9.4             | 2450              | 724               |
| PCB-195                        | 1530            | 447              | 4.95             | <1.6             | 1240              | 329               |
| PCB-194                        | 9330            | 2550             | 25.5             | 15.3             | 5870              | 1410              |
| PCB-205                        | 499             | 155              | 2.40             | <1.5             | 316               | 78.1              |
| PCB-208                        | 224             | 58.1             | 4.82             | <2.7             | 104               | 38.1              |
| PCB-207                        | 57.4            | 18.6             | <1.7             | <0.91            | 36.0              | 16.0              |
| PCB-206                        | 1910            | 532              | 19.2             | 13.6             | 1150              | 268               |
| PCB-209                        | 145             | 87.0             | 14.9             | 10.8             | 77.4              | 32.9              |
| Extraction Standards           | % Rec           | % Rec            | % Rec            | % Rec            | % Rec             | % Rec             |
| 13C12-PCB-001                  | 34              | 35               | 41               | 44               | 19                | 36                |
| 13C12-PCB-003                  | 37              | 41               | 44               | 47               | 23                | 41                |
| 13C12-PCB-004                  | 47              | 49               | 56               | 55               | 27                | 49                |
| 13C12-PCB-015                  | 44              | 47               | 55               | 54               | 35                | 55                |
| 13C12-PCB-019                  | 50              | 51               | 58               | 58               | 31                | 52                |
| 13C12-PCB-037                  | 58              | 63               | 70               | 60               | 41                | 62                |
| 13C12-PCB-054                  | 53              | 57               | 67               | 55               | 35                | 55                |
| 13C12-PCB-081                  | 70              | 71               | 81               | 74               | 54                | 82                |
| 13C12-PCB-077                  | 66              | 68               | 80               | 73               | 53                | 81                |
| 13C12-PCB-104                  | 61              | 67               | 72               | 73               | 54                | 82                |
| 13C12-PCB-123                  | 72              | 75               | 88               | 77               | 61                | 91                |
| 13C12-PCB-118                  | 94              | 86               | 98               | 94               | 73                | 106               |
| 13C12-PCB-114                  | 70              | 74               | 85               | 75               | 57                | 86                |
| 13C12-PCB-105                  | 75              | 76               | 89               | 81               | 63                | 90                |
| 13C12-PCB-126                  | 72              | 75               | 89               | 79               | 63                | 91                |
| 13C12-PCB-155                  | 76              | 75               | 93               | 78               | 59                | 87                |
| 13C12-PCB-167                  | 76              | 72               | 92               | 80               | 61                | 88                |
| 13C12-PCB-156/157              | 69              | 69               | 88               | 76               | 59                | 82                |
| 13C12-PCB-169                  | 74              | 72               | 92               | 76               | 60                | 83                |
| 13C12-PCB-188                  | 69              | 66               | 89               | 75               | 56                | 82                |
| 13C12-PCB-189                  | 70              | 71               | 90               | 74               | 60                | 81                |
| 13C12-PCB-202                  | 79              | 73               | 93               | 79               | 60                | 89                |
| 13C12-PCB-205                  | 74              | 72               | 97               | 78               | 62                | 90                |
| 13C12-PCB-208                  | 74              | 70               | 84               | 52               | 62                | 78                |
| 13C12-PCB-206                  | 76              | 77               | 97               | 81               | 63                | 92                |
| 13C12-PCB-209                  | 83              | 83               | 103              | 90               | 68                | 99                |
| Cleanup Standards              |                 |                  |                  |                  |                   |                   |
| 13C12-PCB-028                  | 55              | 51               | 59               | 47               | 43                | 59                |
| 13C12-PCB-111                  | 71              | 65               | 73               | 65               | 62                | 80                |
| 13C12-PCB-178                  | 70              | 66               | 74               | 61               | 65                | 84                |

| ALS Life Sciences              |                 |                  |                  |                  |                   |                   |
|--------------------------------|-----------------|------------------|------------------|------------------|-------------------|-------------------|
| Sample Analysis Summary Report |                 |                  |                  |                  |                   |                   |
| Sample Name                    | PLOT 4 - 6 JARS | PLOT 11 - 4 JARS | PLOT 70 - 3 JARS | PLOT 71 - 5 JARS | PLOT 109 - 5 JARS | PLOT 110 - 4 JARS |
| ALS Sample ID                  | L2756078-1      | L2756078-2       | L2756078-3       | L2756078-4       | L2756078-5        | L2756078-6        |
| Sample Size                    | 10.25           | 10.31            | 10.06            | 10.11            | 10.3              | 10.37             |
| Sample size units              | g wwt           | g wwt            | g wwt            | g wwt            | g wwt             | g wwt             |
| Percent Moisture               | 72.00%          | 70.94%           | 70.85%           | 72.61%           | 71.90%            | 71.51%            |
| Sample Matrix                  | Tissue          | Tissue           | Tissue           | Tissue           | Tissue            | Tissue            |
| Sampling Date                  | 25-May-24       | 25-May-24        | 25-May-24        | 25-May-24        | 25-May-24         | 25-May-24         |
| Extraction Date                | 6-Jul-24        | 6-Jul-24         | 6-Jul-24         | 6-Jul-24         | 6-Jul-24          | 6-Jul-24          |
| Target Analytes                | pg/g wwt        | pg/g wwt         | pg/g wwt         | pg/g wwt         | pg/g wwt          | pg/g wwt          |
| Homologue Group Totals         |                 |                  |                  |                  |                   |                   |
| Total MonoCB                   | 0.905           | 2.65             | 0.550            | 0.630            | 2.30              | <0.57             |
| Total DiCB                     | 26.8            | 34.3             | 32.3             | 39.1             | 36.3              | 25.6              |
| Total TriCB                    | 181             | 36.5             | 12.9             | 8.48             | 91.1              | 122               |
| Total TetraCB                  | 1510            | 271              | 24.2             | 16.3             | 718               | 698               |
| Total PentaCB                  | 17000           | 2980             | 59.6             | 31.5             | 9280              | 5210              |
| Total HexaCB                   | 24300           | 4950             | 91.9             | 46.6             | 15300             | 9450              |
| Total HeptaCB                  | 44600           | 9870             | 118              | 61.4             | 24900             | 10500             |
| Total OctaCB                   | 26200           | 6500             | 80.6             | 46.3             | 15300             | 4250              |
| Total NonaCB                   | 2190            | 609              | 25.7             | 17.2             | 1290              | 322               |
| DecaCB                         | 145             | 87.0             | 14.9             | 10.8             | 77.4              | 32.9              |
| Total PCB                      | 116000          | 25300            | 460              | 278              | 67000             | 30600             |
| Estimated Aroclor Conc.        |                 |                  |                  |                  |                   |                   |
| Aroclor 1016                   | <0.5            | <0.5             | <0.5             | <0.5             | <0.5              | <0.5              |
| Aroclor 1221                   | <0.5            | <0.5             | <0.5             | <0.5             | <0.5              | <0.5              |
| Aroclor 1232                   | <0.5            | <0.5             | <0.5             | <0.5             | <0.5              | <0.5              |
| Aroclor 1242                   | <0.5            | <0.5             | <0.5             | <0.5             | <0.5              | <0.5              |
| Aroclor 1248                   | <2              | <0.5             | <0.5             | <0.5             | <1                | <1                |
| Aroclor 1254                   | 26.7            | 5.3              | 0.113            | 0.067            | 14.9              | 7.4               |
| Aroclor 1260                   | 21.9            | 4.5              | 0.110            | 0.065            | 13.8              | 8.3               |
| Aroclor 1262                   | 67.3            | 15.5             | 0.238            | 0.144            | 38.2              | 15.1              |
| Toxic Equivalency - (WHO 2005) |                 |                  |                  |                  |                   |                   |
| Lower Bound PCB TEQ            | 78.7            | 12.5             | 0.221            | 0.000118         | 36.9              | 0.146             |
| Mid Point PCB TEQ              | 84.4            | 13.7             | 0.244            | 0.154            | 40.2              | 8.08              |
| Upper Bound PCB TEQ            | 84.4            | 13.7             | 0.245            | 0.166            | 40.2              | 8.08              |

| ALS Life Sciences              |                   |                  |                   |                   |
|--------------------------------|-------------------|------------------|-------------------|-------------------|
| Sample Analysis Summary Report |                   |                  |                   |                   |
| Sample Name                    | PLOT 114 - 4 JARS | PLOT 117 - 1 JAR | PLOT 123 - 3 JARS | PLOT 402 - 6 JARS |
| ALS Sample ID                  | L2756078-7        | L2756078-8       | L2756078-9        | L2756078-10       |
| Sample Size                    | 10.41             | 4.44             | 10.13             | 10.45             |
| Sample size units              | g wwt             | g wwt            | g wwt             | g wwt             |
| Percent Moisture               | 71.46%            | 69.96%           | 72.15%            | 72.66%            |
| Sample Matrix                  | Tissue            | Tissue           | Tissue            | Tissue            |
| Sampling Date                  | 25-May-24         | 25-May-24        | 25-May-24         | 25-May-24         |
| Extraction Date                | 6-Jul-24          | 6-Jul-24         | 6-Jul-24          | 6-Jul-24          |
| Target Analytes                | pg/g wwt          | pg/g wwt         | pg/g wwt          | pg/g wwt          |
| PCB-001                        | <0.74             | <0.71            | <0.48             | <0.51             |
| PCB-002                        | <0.56             | <1.0             | <0.51             | <0.36             |
| PCB-003                        | <0.64             | <0.87            | <0.57             | <0.63             |
| PCB-004                        | <3.6              | <7.6             | <3.5              | <2.5              |
| PCB-010                        | <2.1              | <4.5             | <2.1              | <1.5              |
| PCB-009                        | <2.3              | <4.8             | <2.2              | <1.5              |
| PCB-007                        | <2.2              | <4.7             | <2.2              | <1.5              |
| PCB-006                        | <2.2              | <4.7             | <2.2              | <1.5              |
| PCB-005                        | <2.4              | <5.0             | <2.4              | <1.6              |
| PCB-008                        | <2.1              | <4.4             | <2.1              | <1.4              |
| PCB-014                        | <4.5              | <6.0             | <4.3              | <2.7              |
| PCB-011                        | <37               | 51.7             | 34.0              | 29.3              |
| PCB-012/013                    | <4.4              | <5.8             | <4.2              | <2.7              |
| PCB-015                        | <5.0              | <6.5             | <4.7              | <2.9              |
| PCB-019                        | <1.1              | <2.6             | <1.2              | <0.81             |
| PCB-018/030                    | 6.90              | <2.0             | <1.3              | <1.2              |
| PCB-017                        | <1.7              | <2.2             | <1.3              | <0.79             |
| PCB-027                        | <0.95             | <1.7             | <0.95             | <0.58             |
| PCB-024                        | <1.1              | <1.9             | <1.1              | <0.66             |
| PCB-016                        | 4.00              | <2.6             | <1.5              | <0.90             |
| PCB-032                        | 2.06              | <1.5             | <0.87             | <0.53             |
| PCB-034                        | <1.3              | <1.9             | <0.92             | <0.75             |
| PCB-023                        | <1.3              | <1.9             | <0.92             | <0.75             |
| PCB-026/029                    | <1.5              | <1.8             | <0.85             | <0.70             |
| PCB-025                        | <1.2              | <1.7             | <0.84             | <0.68             |
| PCB-031                        | <6.4              | <3.2             | <1.8              | 2.03              |
| PCB-020/028                    | <1.3              | 12.6             | 23.7              | 3.85              |
| PCB-021/033                    | 6.41              | <1.8             | 1.80              | <1.1              |
| PCB-022                        | <3.5              | <2.0             | <0.96             | <0.78             |
| PCB-036                        | <1.2              | <1.7             | <0.81             | <0.66             |
| PCB-039                        | <1.4              | <2.0             | <0.98             | <0.80             |
| PCB-038                        | <1.3              | <1.9             | <0.93             | <0.76             |
| PCB-035                        | <1.4              | <2.0             | <0.95             | <0.78             |
| PCB-037                        | <11               | <3.8             | <3.7              | <0.81             |
| PCB-054                        | <0.33             | <0.76            | <0.49             | <0.14             |
| PCB-050/053                    | <0.70             | <1.7             | <0.86             | <0.61             |
| PCB-045/051                    | 1.35              | <1.8             | <0.91             | 1.00              |
| PCB-046                        | <0.80             | <1.9             | <0.99             | <0.70             |
| PCB-052                        | 12.2              | <6.5             | 6.31              | <3.0              |
| PCB-073                        | <0.51             | <1.2             | <0.63             | <0.44             |
| PCB-043                        | <0.83             | <2.0             | <1.0              | <0.73             |
| PCB-049/069                    | <2.7              | 1.98             | 1.64              | 1.31              |
| PCB-048                        | 0.878             | <1.7             | <0.87             | <0.61             |
| PCB-044/047/065                | <9.4              | <7.1             | <6.6              | <4.0              |
| PCB-059/062/075                | <1.8              | <1.2             | <0.63             | <0.45             |
| PCB-042                        | <0.80             | <1.9             | <1.0              | <0.70             |
| PCB-040/041/071                | <2.1              | <1.7             | <0.88             | <0.62             |
| PCB-064                        | <3.6              | <1.5             | <0.85             | <0.45             |
| PCB-072                        | <1.0              | <1.3             | <0.97             | <0.41             |
| PCB-068                        | <1.0              | <1.3             | <0.96             | <0.41             |
| PCB-057                        | <1.1              | <1.4             | <1.0              | <0.43             |
| PCB-058                        | <1.0              | <1.3             | <0.98             | <0.42             |
| PCB-067                        | <0.90             | <1.1             | <0.84             | <0.36             |
| PCB-063                        | <3.9              | <1.3             | <1.1              | <0.41             |
| PCB-061/070/074/076            | 193               | 43.9             | 67.5              | <5.2              |
| PCB-066                        | <41               | 10.2             | 20.4              | <1.5              |
| PCB-055                        | <1.1              | <1.5             | <1.1              | <0.46             |
| PCB-056                        | <4.5              | <1.3             | <0.94             | <0.40             |
| PCB-060                        | 32.1              | 5.55             | <10               | <0.43             |
| PCB-080                        | <0.86             | <1.1             | <0.81             | <0.34             |
| PCB-079                        | <2.4              | <1.2             | <0.87             | <0.37             |
| PCB-078                        | <1.1              | <1.4             | <1.0              | <0.45             |
| PCB-081                        | 4.82              | <1.5             | <1.4              | <0.46             |
| PCB-077                        | 79.1              | 19.4             | 14.0              | <1.5              |
| PCB-104                        | <0.67             | <1.3             | <0.62             | <0.55             |
| PCB-096                        | <0.90             | <1.8             | <0.87             | <0.84             |
| PCB-103                        | <1.5              | <2.9             | <1.9              | <1.0              |
| PCB-094                        | <1.7              | <3.1             | <2.1              | <1.1              |
| PCB-095                        | 17.2              | <4.4             | 6.36              | <1.3              |
| PCB-093/098/100/102            | <1.5              | <2.7             | <1.8              | <0.94             |

| ALS Life Sciences              |                   |                  |                   |                   |
|--------------------------------|-------------------|------------------|-------------------|-------------------|
| Sample Analysis Summary Report |                   |                  |                   |                   |
| Sample Name                    | PLOT 114 - 4 JARS | PLOT 117 - 1 JAR | PLOT 123 - 3 JARS | PLOT 402 - 6 JARS |
| ALS Sample ID                  | L2756078-7        | L2756078-8       | L2756078-9        | L2756078-10       |
| Sample Size                    | 10.41             | 4.44             | 10.13             | 10.45             |
| Sample size units              | g wwt             | g wwt            | g wwt             | g wwt             |
| Percent Moisture               | 71.46%            | 69.96%           | 72.15%            | 72.66%            |
| Sample Matrix                  | Tissue            | Tissue           | Tissue            | Tissue            |
| Sampling Date                  | 25-May-24         | 25-May-24        | 25-May-24         | 25-May-24         |
| Extraction Date                | 6-Jul-24          | 6-Jul-24         | 6-Jul-24          | 6-Jul-24          |
| Target Analytes                | pg/g wwt          | pg/g wwt         | pg/g wwt          | pg/g wwt          |
| PCB-088/091                    | <3.0              | <2.9             | <2.0              | <1.0              |
| PCB-084                        | <3.2              | <3.1             | <2.0              | <1.1              |
| PCB-089                        | <1.9              | <3.7             | <2.4              | <1.3              |
| PCB-121                        | <1.1              | <2.1             | <1.4              | <0.71             |
| PCB-092                        | 16.6              | <3.3             | 3.66              | <1.1              |
| PCB-090/101/113                | 59.7              | 13.6             | 15.0              | <1.8              |
| PCB-083/099                    | 204               | 42.5             | 59.4              | 3.29              |
| PCB-112                        | <1.0              | <1.9             | <1.3              | <0.66             |
| PCB-086/087/097/109/119/125    | 26.7              | <7.4             | 7.48              | <1.3              |
| PCB-085/110/115/116/117        | 145               | 32.4             | 34.9              | <3.8              |
| PCB-082                        | <2.0              | <3.7             | <2.5              | <1.3              |
| PCB-111                        | <1.0              | <1.9             | <1.3              | <0.67             |
| PCB-120                        | <3.9              | <2.0             | <1.3              | <0.68             |
| PCB-108/124                    | <6.7              | <2.4             | 1.93              | <0.64             |
| PCB-107                        | 78.3              | 16.9             | 19.9              | <0.64             |
| PCB-123                        | 6.75              | <2.0             | <1.9              | <0.76             |
| PCB-106                        | <2.3              | <2.0             | <1.8              | <0.71             |
| PCB-118                        | 3420              | 636              | 773               | 37.7              |
| PCB-122                        | <2.7              | <2.3             | <2.2              | <0.85             |
| PCB-114                        | <48               | <6.9             | <9.5              | <0.76             |
| PCB-105                        | 565               | 116              | 157               | <6.8              |
| PCB-127                        | 3.22              | <1.7             | <1.6              | <0.62             |
| PCB-126                        | 147               | <30              | 27.7              | <1.7              |
| PCB-155                        | <0.27             | <0.40            | <0.32             | <0.15             |
| PCB-152                        | <0.54             | <0.77            | <0.62             | <0.30             |
| PCB-150                        | <0.40             | <0.58            | <0.47             | <0.22             |
| PCB-136                        | <3.2              | <0.68            | <0.77             | <0.26             |
| PCB-145                        | <0.46             | <0.66            | <0.54             | <0.26             |
| PCB-148                        | <0.62             | <0.88            | <0.71             | <0.34             |
| PCB-135/151                    | 56.4              | <7.9             | 11.6              | <0.44             |
| PCB-154                        | <0.49             | <0.69            | <0.56             | <0.27             |
| PCB-144                        | 4.51              | <0.91            | <0.74             | <0.35             |
| PCB-147/149                    | 95.4              | <2.6             | <1.8              | <0.73             |
| PCB-134/143                    | <3.9              | <3.3             | <2.3              | <0.92             |
| PCB-139/140                    | 9.38              | <2.5             | <1.7              | <0.70             |
| PCB-131                        | <3.0              | <3.2             | <2.3              | <0.92             |
| PCB-142                        | <3.0              | <3.3             | <2.3              | <0.92             |
| PCB-132                        | 31.5              | 6.64             | <6.7              | <0.86             |
| PCB-133                        | <34               | 4.93             | 11.7              | <0.81             |
| PCB-165                        | <4.2              | <2.1             | <1.5              | <0.61             |
| PCB-146                        | 208               | 37.8             | 53.7              | 1.86              |
| PCB-161                        | <1.6              | <1.8             | <1.2              | <0.50             |
| PCB-153/168                    | 3080              | 484              | 602               | 35.9              |
| PCB-141                        | <58               | <9.4             | 14.7              | <0.87             |
| PCB-130                        | 120               | 25.9             | 28.6              | 1.49              |
| PCB-137/164                    | 42.5              | 11.4             | 10.7              | <0.82             |
| PCB-129/138/163                | 2810              | 483              | 503               | 32.4              |
| PCB-160                        | <1.8              | <2.0             | <1.4              | <0.56             |
| PCB-158                        | 169               | 22.6             | 32.2              | <1.2              |
| PCB-128/166                    | 277               | 44.8             | 48.1              | 3.05              |
| PCB-159                        | <4.4              | <1.7             | <1.2              | <0.49             |
| PCB-162                        | 28.5              | 7.85             | <4.9              | <0.53             |
| PCB-167                        | 487               | 89.0             | 87.7              | 5.27              |
| PCB-156/157                    | 972               | 190              | 179               | 10.0              |
| PCB-169                        | <75               | 14.5             | 9.60              | <1.1              |
| PCB-188                        | <1.3              | <1.2             | <0.65             | <0.44             |
| PCB-179                        | 13.0              | <1.5             | <1.4              | <0.58             |
| PCB-184                        | <1.5              | <1.4             | <0.76             | <0.53             |
| PCB-176                        | <3.1              | <1.4             | <0.79             | <0.55             |
| PCB-186                        | <1.6              | <1.5             | <0.86             | <0.60             |
| PCB-178                        | 459               | 81.5             | 79.4              | <5.2              |
| PCB-175                        | 12.4              | <2.8             | <2.9              | <0.76             |
| PCB-187                        | 2340              | 343              | 384               | 25.7              |
| PCB-182                        | <1.9              | <1.7             | <0.99             | <0.69             |
| PCB-183                        | 458               | <81              | 120               | 4.24              |
| PCB-185                        | 16.5              | <2.1             | 3.28              | <0.81             |
| PCB-174                        | 60.3              | 9.12             | <7.7              | <0.91             |
| PCB-177                        | 1210              | 200              | 185               | 12.0              |
| PCB-181                        | <6.2              | <2.0             | <1.1              | <0.77             |
| PCB-171/173                    | 131               | <23              | <23               | <6.8              |
| PCB-172                        | 520               | 108              | 111               | <3.2              |



| ALS Life Sciences              |                   |                  |                   |                   |
|--------------------------------|-------------------|------------------|-------------------|-------------------|
| Sample Analysis Summary Report |                   |                  |                   |                   |
| Sample Name                    | PLOT 114 - 4 JARS | PLOT 117 - 1 JAR | PLOT 123 - 3 JARS | PLOT 402 - 6 JARS |
| ALS Sample ID                  | L2756078-7        | L2756078-8       | L2756078-9        | L2756078-10       |
| Sample Size                    | 10.41             | 4.44             | 10.13             | 10.45             |
| Sample size units              | g wwt             | g wwt            | g wwt             | g wwt             |
| Percent Moisture               | 71.46%            | 69.96%           | 72.15%            | 72.66%            |
| Sample Matrix                  | Tissue            | Tissue           | Tissue            | Tissue            |
| Sampling Date                  | 25-May-24         | 25-May-24        | 25-May-24         | 25-May-24         |
| Extraction Date                | 6-Jul-24          | 6-Jul-24         | 6-Jul-24          | 6-Jul-24          |
| Target Analytes                | pg/g wwt          | pg/g wwt         | pg/g wwt          | pg/g wwt          |
| PCB-192                        | <1.8              | <1.6             | <0.88             | <0.62             |
| PCB-180/193                    | 7280              | 1110             | 1200              | 69.7              |
| PCB-191                        | 28.0              | <4.8             | <5.1              | <0.51             |
| PCB-170                        | 1090              | 152              | 189               | 8.77              |
| PCB-190                        | 934               | 172              | 140               | <11               |
| PCB-189                        | 270               | 51.4             | 46.1              | <3.1              |
| PCB-202                        | 195               | <36              | 33.1              | 3.64              |
| PCB-201                        | 25.4              | <4.6             | 4.36              | <0.46             |
| PCB-204                        | <0.48             | <0.47            | <0.32             | <0.26             |
| PCB-197                        | 16.8              | 4.27             | <4.0              | <0.29             |
| PCB-200                        | 3.52              | <0.51            | <0.35             | <0.29             |
| PCB-198/199                    | 3470              | 596              | 436               | 50.9              |
| PCB-196                        | 215               | <24              | 40.6              | <1.0              |
| PCB-203                        | 1570              | 248              | 225               | <21               |
| PCB-195                        | 764               | 116              | <77               | <9.9              |
| PCB-194                        | 3930              | 713              | 532               | 46.0              |
| PCB-205                        | 221               | 44.8             | 32.5              | <3.3              |
| PCB-208                        | 91.4              | 18.8             | <13               | <8.7              |
| PCB-207                        | <30               | <3.4             | 8.60              | <0.70             |
| PCB-206                        | 844               | 153              | 122               | 21.3              |
| PCB-209                        | 82.4              | 20.8             | 35.2              | 7.34              |
| Extraction Standards           | % Rec             | % Rec            | % Rec             | % Rec             |
| 13C12-PCB-001                  | 28                | 40               | 36                | 52                |
| 13C12-PCB-003                  | 29                | 39               | 40                | 55                |
| 13C12-PCB-004                  | 41                | 51               | 48                | 69                |
| 13C12-PCB-015                  | 43                | 50               | 46                | 66                |
| 13C12-PCB-019                  | 45                | 53               | 50                | 69                |
| 13C12-PCB-037                  | 51                | 63               | 55                | 64                |
| 13C12-PCB-054                  | 49                | 56               | 53                | 66                |
| 13C12-PCB-081                  | 63                | 74               | 62                | 84                |
| 13C12-PCB-077                  | 65                | 73               | 60                | 83                |
| 13C12-PCB-104                  | 57                | 71               | 59                | 86                |
| 13C12-PCB-123                  | 67                | 81               | 64                | 86                |
| 13C12-PCB-118                  | 77                | 94               | 78                | 98                |
| 13C12-PCB-114                  | 65                | 79               | 63                | 86                |
| 13C12-PCB-105                  | 71                | 83               | 68                | 91                |
| 13C12-PCB-126                  | 71                | 78               | 67                | 88                |
| 13C12-PCB-155                  | 72                | 78               | 66                | 86                |
| 13C12-PCB-167                  | 68                | 77               | 64                | 87                |
| 13C12-PCB-156/157              | 65                | 76               | 62                | 81                |
| 13C12-PCB-169                  | 66                | 80               | 62                | 84                |
| 13C12-PCB-188                  | 65                | 76               | 61                | 82                |
| 13C12-PCB-189                  | 65                | 77               | 58                | 78                |
| 13C12-PCB-202                  | 70                | 80               | 66                | 87                |
| 13C12-PCB-205                  | 70                | 84               | 67                | 91                |
| 13C12-PCB-208                  | 67                | 80               | 75                | 79                |
| 13C12-PCB-206                  | 70                | 85               | 71                | 103               |
| 13C12-PCB-209                  | 79                | 93               | 78                | 103               |
| Cleanup Standards              |                   |                  |                   |                   |
| 13C12-PCB-028                  | 56                | 54               | 55                | 54                |
| 13C12-PCB-111                  | 72                | 72               | 70                | 71                |
| 13C12-PCB-178                  | 71                | 73               | 65                | 70                |

| ALS Life Sciences              |                   |                  |                   |                   |
|--------------------------------|-------------------|------------------|-------------------|-------------------|
| Sample Analysis Summary Report |                   |                  |                   |                   |
| Sample Name                    | PLOT 114 - 4 JARS | PLOT 117 - 1 JAR | PLOT 123 - 3 JARS | PLOT 402 - 6 JARS |
| ALS Sample ID                  | L2756078-7        | L2756078-8       | L2756078-9        | L2756078-10       |
| Sample Size                    | 10.41             | 4.44             | 10.13             | 10.45             |
| Sample size units              | g wwt             | g wwt            | g wwt             | g wwt             |
| Percent Moisture               | 71.46%            | 69.96%           | 72.15%            | 72.66%            |
| Sample Matrix                  | Tissue            | Tissue           | Tissue            | Tissue            |
| Sampling Date                  | 25-May-24         | 25-May-24        | 25-May-24         | 25-May-24         |
| Extraction Date                | 6-Jul-24          | 6-Jul-24         | 6-Jul-24          | 6-Jul-24          |
| Target Analytes                | pg/g wwt          | pg/g wwt         | pg/g wwt          | pg/g wwt          |
| Homologue Group Totals         |                   |                  |                   |                   |
| Total MonoCB                   | 0.740             | 1.00             | <0.48             | 1.50              |
| Total DiCB                     | 37.0              | 51.7             | 34.0              | 29.3              |
| Total TriCB                    | 43.5              | 21.6             | 32.3              | 8.18              |
| Total TetraCB                  | 395               | 97.6             | 130               | 17.5              |
| Total PentaCB                  | 4750              | 909              | 1120              | 58.5              |
| Total HexaCB                   | 8570              | 1440             | 1600              | 94.4              |
| Total HeptaCB                  | 14800             | 2340             | 2500              | 144               |
| Total OctaCB                   | 10400             | 1790             | 1380              | 136               |
| Total NonaCB                   | 965               | 175              | 144               | 21.3              |
| DecaCB                         | 82.4              | 20.8             | 35.2              | 7.34              |
| Total PCB                      | 40100             | 6840             | 6980              | 518               |
| Estimated Aroclor Conc.        |                   |                  |                   |                   |
| Aroclor 1016                   | <0.5              | <0.5             | <0.5              | <0.5              |
| Aroclor 1221                   | <0.5              | <0.5             | <0.5              | <0.5              |
| Aroclor 1232                   | <0.5              | <0.5             | <0.5              | <0.5              |
| Aroclor 1242                   | <0.5              | <0.5             | <0.5              | <0.5              |
| Aroclor 1248                   | <0.5              | <0.5             | <0.5              | <0.5              |
| Aroclor 1254                   | 8.42              | 1.60             | 1.74              | 0.110             |
| Aroclor 1260                   | 7.91              | 1.35             | 1.47              | 0.102             |
| Aroclor 1262                   | 23.6              | 3.90             | 3.78              | 0.305             |
| Toxic Equivalency - (WHO 2005) |                   |                  |                   |                   |
| Lower Bound PCB TEQ            | 14.9              | 0.469            | 3.10              | 0.00159           |
| Mid Point PCB TEQ              | 17.1              | 3.47             | 3.10              | 0.205             |
| Upper Bound PCB TEQ            | 17.1              | 3.47             | 3.10              | 0.205             |

| ALS Life Sciences              |              |              |
|--------------------------------|--------------|--------------|
| Quality Control Summary Report |              |              |
| Sample Name                    | Method Blank | Method Blank |
| ALS Sample ID                  | WG3789754-1  | WG3789754-4  |
| Sample Size                    | 3            | 3            |
| Sample size units              | g            | g            |
| Percent Moisture               | n/a          | n/a          |
| Sample Matrix                  | 1g corn oil  | QC           |
| Sampling Date                  | n/a          | n/a          |
| Extraction Date                | 6-Jul-24     | 6-Jul-24     |
| Target Analytes                | pg/g         | pg/g         |
| PCB-001                        | <1.7         | <4.1         |
| PCB-002                        | <1.9         | <4.5         |
| PCB-003                        | <2.1         | <4.9         |
| PCB-004                        | <19          | <34          |
| PCB-010                        | <8.9         | <20          |
| PCB-009                        | <9.5         | <22          |
| PCB-007                        | <9.6         | <22          |
| PCB-006                        | <9.4         | <21          |
| PCB-005                        | <11          | <25          |
| PCB-008                        | <8.2         | <19          |
| PCB-014                        | <14          | <33          |
| PCB-011                        | <27          | <33          |
| PCB-012/013                    | <14          | <32          |
| PCB-015                        | <13          | <39          |
| PCB-019                        | <5.1         | <14          |
| PCB-018/030                    | <4.2         | <5.2         |
| PCB-017                        | <4.8         | <6.0         |
| PCB-027                        | <3.7         | <4.6         |
| PCB-024                        | <4.1         | <5.1         |
| PCB-016                        | <5.4         | <6.7         |
| PCB-032                        | <3.3         | <4.1         |
| PCB-034                        | <4.6         | <6.9         |
| PCB-023                        | <4.4         | <6.5         |
| PCB-026/029                    | <4.3         | <6.3         |
| PCB-025                        | <4.2         | <6.2         |
| PCB-031                        | <4.1         | <6.0         |
| PCB-020/028                    | <4.4         | <6.5         |
| PCB-021/033                    | <4.3         | <6.4         |
| PCB-022                        | <4.9         | <7.2         |
| PCB-036                        | <4.1         | <6.0         |
| PCB-039                        | <5.0         | <7.3         |
| PCB-038                        | <4.7         | <6.9         |
| PCB-035                        | <4.9         | <7.2         |
| PCB-037                        | <4.9         | <5.6         |
| PCB-054                        | <1.2         | <2.5         |
| PCB-050/053                    | <2.7         | <3.8         |
| PCB-045/051                    | <2.8         | <4.0         |
| PCB-046                        | <3.1         | <4.3         |
| PCB-052                        | <3.1         | 6.21         |
| PCB-073                        | <2.0         | <2.7         |
| PCB-043                        | <3.1         | <4.3         |
| PCB-049/069                    | <2.4         | <3.3         |
| PCB-048                        | <2.8         | <3.9         |
| PCB-044/047/065                | <6.1         | 6.25         |
| PCB-059/062/075                | <2.0         | <2.8         |
| PCB-042                        | <3.1         | <4.4         |
| PCB-040/041/071                | <2.8         | <4.0         |
| PCB-064                        | <2.1         | <2.9         |
| PCB-072                        | <2.0         | <2.4         |
| PCB-068                        | <1.9         | <2.3         |
| PCB-057                        | <2.1         | <2.5         |
| PCB-058                        | <2.0         | <2.4         |
| PCB-067                        | <1.7         | <2.1         |
| PCB-063                        | <1.9         | <2.3         |
| PCB-061/070/074/076            | <2.6         | <2.3         |
| PCB-066                        | <1.9         | <2.3         |
| PCB-055                        | <2.1         | <2.6         |
| PCB-056                        | <1.9         | <2.3         |
| PCB-060                        | <2.0         | <2.5         |
| PCB-080                        | <1.7         | <2.0         |
| PCB-079                        | <1.8         | <2.1         |
| PCB-078                        | <2.2         | <2.7         |
| PCB-081                        | <2.2         | <2.3         |
| PCB-077                        | <2.5         | <2.6         |
| PCB-104                        | <3.1         | <4.2         |
| PCB-096                        | <4.1         | <4.3         |
| PCB-103                        | <5.1         | <5.2         |
| PCB-094                        | <5.5         | <5.7         |
| PCB-095                        | <6.4         | <6.6         |
| PCB-093/098/100/102            | <4.8         | <4.9         |

| ALS Life Sciences              |              |              |
|--------------------------------|--------------|--------------|
| Quality Control Summary Report |              |              |
| Sample Name                    | Method Blank | Method Blank |
| ALS Sample ID                  | WG3789754-1  | WG3789754-4  |
| Sample Size                    | 3            | 3            |
| Sample size units              | g            | g            |
| Percent Moisture               | n/a          | n/a          |
| Sample Matrix                  | 1g corn oil  | QC           |
| Sampling Date                  | n/a          | n/a          |
| Extraction Date                | 6-Jul-24     | 6-Jul-24     |
| Target Analytes                | pg/g         | pg/g         |
| PCB-088/091                    | <5.2         | <5.3         |
| PCB-084                        | <5.4         | <5.6         |
| PCB-089                        | <6.5         | <6.7         |
| PCB-121                        | <3.7         | <3.8         |
| PCB-092                        | <5.8         | <6.0         |
| PCB-090/101/113                | <4.2         | <4.3         |
| PCB-083/099                    | <5.5         | <5.7         |
| PCB-112                        | <3.5         | <3.6         |
| PCB-086/087/097/109/119/125    | <4.1         | <4.2         |
| PCB-085/110/115/116/117        | <3.9         | <4.0         |
| PCB-082                        | <6.7         | <6.9         |
| PCB-111                        | <3.6         | <3.7         |
| PCB-120                        | <3.5         | <3.6         |
| PCB-108/124                    | <3.9         | <4.1         |
| PCB-107                        | <3.7         | <3.9         |
| PCB-123                        | <4.2         | <4.2         |
| PCB-106                        | <4.3         | <4.4         |
| PCB-118                        | <4.0         | <3.8         |
| PCB-122                        | <5.2         | <5.4         |
| PCB-114                        | <4.4         | <3.9         |
| PCB-105                        | <4.1         | <3.8         |
| PCB-127                        | <4.1         | <4.3         |
| PCB-126                        | <4.9         | <4.6         |
| PCB-155                        | <1.2         | <1.5         |
| PCB-152                        | <2.4         | <2.4         |
| PCB-150                        | <1.9         | <1.8         |
| PCB-136                        | <2.2         | <2.2         |
| PCB-145                        | <2.1         | <2.1         |
| PCB-148                        | <2.9         | <2.8         |
| PCB-135/151                    | <3.4         | <3.3         |
| PCB-154                        | <1.9         | <1.8         |
| PCB-144                        | <3.0         | <2.9         |
| PCB-147/149                    | <2.8         | <2.2         |
| PCB-134/143                    | <3.6         | <2.8         |
| PCB-139/140                    | <2.8         | <2.2         |
| PCB-131                        | <3.6         | <2.8         |
| PCB-142                        | <3.6         | <2.8         |
| PCB-132                        | <3.4         | <2.6         |
| PCB-133                        | <3.2         | <2.5         |
| PCB-165                        | <2.3         | <1.8         |
| PCB-146                        | <2.7         | <2.1         |
| PCB-161                        | <2.0         | <1.6         |
| PCB-153/168                    | <2.2         | 1.87         |
| PCB-141                        | <2.8         | <2.2         |
| PCB-130                        | <3.4         | <2.7         |
| PCB-137/164                    | <2.5         | <2.0         |
| PCB-129/138/163                | <2.8         | <2.2         |
| PCB-160                        | <2.3         | <1.8         |
| PCB-158                        | <1.8         | <1.4         |
| PCB-128/166                    | <2.4         | <1.9         |
| PCB-159                        | <2.1         | <1.6         |
| PCB-162                        | <2.2         | <1.7         |
| PCB-167                        | <1.9         | <1.5         |
| PCB-156/157                    | <3.0         | <2.1         |
| PCB-169                        | <2.3         | <1.6         |
| PCB-188                        | <0.89        | <1.0         |
| PCB-179                        | <1.1         | <1.2         |
| PCB-184                        | <1.0         | <1.1         |
| PCB-176                        | <1.1         | <1.2         |
| PCB-186                        | <1.2         | <1.3         |
| PCB-178                        | <1.5         | <1.8         |
| PCB-175                        | <1.5         | <1.7         |
| PCB-187                        | 1.46         | <1.6         |
| PCB-182                        | <1.3         | <1.5         |
| PCB-183                        | <1.4         | <1.5         |
| PCB-185                        | <1.6         | <1.8         |
| PCB-174                        | <1.4         | <1.6         |
| PCB-177                        | <1.5         | <1.7         |
| PCB-181                        | <1.6         | <1.8         |
| PCB-171/173                    | <1.5         | <1.8         |
| PCB-172                        | <1.5         | <1.7         |



| ALS Life Sciences              |              |              |
|--------------------------------|--------------|--------------|
| Quality Control Summary Report |              |              |
| Sample Name                    | Method Blank | Method Blank |
| ALS Sample ID                  | WG3789754-1  | WG3789754-4  |
| Sample Size                    | 3            | 3            |
| Sample size units              | g            | g            |
| Percent Moisture               | n/a          | n/a          |
| Sample Matrix                  | 1g corn oil  | QC           |
| Sampling Date                  | n/a          | n/a          |
| Extraction Date                | 6-Jul-24     | 6-Jul-24     |
|                                |              |              |
| Target Analytes                | pg/g         | pg/g         |
| PCB-192                        | <1.3         | <1.4         |
| PCB-180/193                    | <1.3         | <1.4         |
| PCB-191                        | <1.1         | <1.2         |
| PCB-170                        | <1.5         | <1.8         |
| PCB-190                        | <0.96        | <1.1         |
| PCB-189                        | <1.2         | <1.1         |
| PCB-202                        | <0.91        | <0.97        |
| PCB-201                        | <0.97        | <1.1         |
| PCB-204                        | <0.96        | <1.0         |
| PCB-197                        | <1.1         | <1.2         |
| PCB-200                        | <1.1         | <1.2         |
| PCB-198/199                    | <1.4         | <1.6         |
| PCB-196                        | <1.4         | <1.6         |
| PCB-203                        | <1.3         | <1.5         |
| PCB-195                        | <1.6         | <1.4         |
| PCB-194                        | <1.5         | 2.32         |
| PCB-205                        | <1.4         | <1.3         |
| PCB-208                        | <2.0         | <2.1         |
| PCB-207                        | <2.1         | <2.2         |
| PCB-206                        | <3.6         | <3.8         |
| PCB-209                        | <0.91        | <0.71        |
|                                |              |              |
| Extraction Standards           | % Rec        | % Rec        |
| 13C12-PCB-001                  | 39           | 16           |
| 13C12-PCB-003                  | 38           | 20           |
| 13C12-PCB-004                  | 42           | 21           |
| 13C12-PCB-015                  | 53           | 24           |
| 13C12-PCB-019                  | 52           | 21           |
| 13C12-PCB-037                  | 56           | 36           |
| 13C12-PCB-054                  | 55           | 25           |
| 13C12-PCB-081                  | 65           | 55           |
| 13C12-PCB-077                  | 64           | 55           |
| 13C12-PCB-104                  | 60           | 38           |
| 13C12-PCB-123                  | 70           | 62           |
| 13C12-PCB-118                  | 71           | 66           |
| 13C12-PCB-114                  | 66           | 63           |
| 13C12-PCB-105                  | 71           | 68           |
| 13C12-PCB-126                  | 66           | 65           |
| 13C12-PCB-155                  | 70           | 52           |
| 13C12-PCB-167                  | 70           | 66           |
| 13C12-PCB-156/157              | 67           | 67           |
| 13C12-PCB-169                  | 64           | 68           |
| 13C12-PCB-188                  | 67           | 62           |
| 13C12-PCB-189                  | 69           | 66           |
| 13C12-PCB-202                  | 70           | 70           |
| 13C12-PCB-205                  | 76           | 72           |
| 13C12-PCB-208                  | 78           | 76           |
| 13C12-PCB-206                  | 77           | 75           |
| 13C12-PCB-209                  | 79           | 81           |
|                                |              |              |
| Cleanup Standards              |              |              |
| 13C12-PCB-028                  | 67           | 33           |
| 13C12-PCB-111                  | 75           | 52           |
| 13C12-PCB-178                  | 77           | 53           |

| ALS Life Sciences              |              |              |
|--------------------------------|--------------|--------------|
| Quality Control Summary Report |              |              |
| Sample Name                    | Method Blank | Method Blank |
| ALS Sample ID                  | WG3789754-1  | WG3789754-4  |
| Sample Size                    | 3            | 3            |
| Sample size units              | g            | g            |
| Percent Moisture               | n/a          | n/a          |
| Sample Matrix                  | 1g corn oil  | QC           |
| Sampling Date                  | n/a          | n/a          |
| Extraction Date                | 6-Jul-24     | 6-Jul-24     |
| Target Analytes                | pg/g         | pg/g         |
| Homologue Group Totals         |              |              |
| Total MonoCB                   | <1.7         | <4.1         |
| Total DiCB                     | 27.0         | <19          |
| Total TriCB                    | <3.3         | <4.1         |
| Total TetraCB                  | 8.70         | 12.5         |
| Total PentaCB                  | <3.1         | <3.6         |
| Total HexaCB                   | <1.2         | 1.87         |
| Total HeptaCB                  | 1.46         | <1.0         |
| Total OctaCB                   | <0.91        | 2.32         |
| Total NonaCB                   | <2.0         | <2.1         |
| DecaCB                         | <0.91        | <0.71        |
| Total PCB                      | 37.2         | 16.7         |
| Toxic Equivalency - (WHO 2005) |              |              |
| Lower Bound PCB TEQ            | 0.00         | 0.00         |
| Mid Point PCB TEQ              | 0.280        | 0.255        |
| Upper Bound PCB TEQ            | 0.561        | 0.510        |

| ALS Life Sciences              |                           |  |
|--------------------------------|---------------------------|--|
| Sample Analysis Summary Report |                           |  |
| Sample Name                    | Laboratory Control Sample |  |
| ALS Sample ID                  | WG3789754-2               |  |
| Sample Size                    | 1                         |  |
| Sample size units              | n/a                       |  |
| Percent Moisture               | n/a                       |  |
| Sample Matrix                  | QC                        |  |
| Sampling Date                  | n/a                       |  |
| Extraction Date                | 6-Jul-24                  |  |
| Target Analytes                | % Rec                     |  |
| PCB-001                        | 108                       |  |
| PCB-003                        | 98                        |  |
| PCB-004                        | 105                       |  |
| PCB-015                        | 106                       |  |
| PCB-019                        | 107                       |  |
| PCB-037                        | 114                       |  |
| PCB-054                        | 100                       |  |
| PCB-081                        | 105                       |  |
| PCB-077                        | 104                       |  |
| PCB-104                        | 97                        |  |
| PCB-123                        | 101                       |  |
| PCB-118                        | 99                        |  |
| PCB-114                        | 106                       |  |
| PCB-105                        | 91                        |  |
| PCB-126                        | 98                        |  |
| PCB-155                        | 89                        |  |
| PCB-167                        | 89                        |  |
| PCB-156/157                    | 90                        |  |
| PCB-169                        | 90                        |  |
| PCB-188                        | 85                        |  |
| PCB-189                        | 94                        |  |
| PCB-202                        | 96                        |  |
| PCB-205                        | 91                        |  |
| PCB-208                        | 98                        |  |
| PCB-206                        | 92                        |  |
| PCB-209                        | 113                       |  |
| Extraction Standards           | % Rec                     |  |
| 13C12-PCB-001                  | 38                        |  |
| 13C12-PCB-003                  | 34                        |  |
| 13C12-PCB-004                  | 41                        |  |
| 13C12-PCB-015                  | 45                        |  |
| 13C12-PCB-019                  | 43                        |  |
| 13C12-PCB-037                  | 48                        |  |
| 13C12-PCB-054                  | 48                        |  |
| 13C12-PCB-081                  | 54                        |  |
| 13C12-PCB-077                  | 54                        |  |
| 13C12-PCB-104                  | 51                        |  |
| 13C12-PCB-123                  | 58                        |  |
| 13C12-PCB-118                  | 61                        |  |
| 13C12-PCB-114                  | 56                        |  |
| 13C12-PCB-105                  | 63                        |  |
| 13C12-PCB-126                  | 57                        |  |
| 13C12-PCB-155                  | 56                        |  |
| 13C12-PCB-167                  | 60                        |  |
| 13C12-PCB-156/157              | 59                        |  |
| 13C12-PCB-169                  | 63                        |  |
| 13C12-PCB-188                  | 55                        |  |
| 13C12-PCB-189                  | 68                        |  |
| 13C12-PCB-202                  | 60                        |  |
| 13C12-PCB-205                  | 63                        |  |
| 13C12-PCB-208                  | 66                        |  |
| 13C12-PCB-206                  | 68                        |  |
| 13C12-PCB-209                  | 70                        |  |
| Cleanup Standards              |                           |  |
| 13C12-PCB-028                  | 70                        |  |
| 13C12-PCB-111                  | 79                        |  |
| 13C12-PCB-178                  | 79                        |  |



Wildland Management Consultants Ltd.  
ATTN: Lawrence Brusnyk  
50345 Range Road 222  
Leduc County AB T0B 3M2

Date Received: 05-JUN-24  
Report Date: 16-AUG-24 12:35 (MT)  
Version: FINAL

Client Phone: 780-915-4856

## Certificate of Analysis

Lab Work Order #: L2756078  
Project P.O. #: NOT SUBMITTED  
Job Reference: SHTC 11-086  
C of C Numbers:  
Legal Site Desc:

Dana Brown, Chem. Tech. DIPL  
Account Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters                                                       | Result | Qualifier* | D.L. | Units   | Extracted | Analyzed  | Batch    |
|---------------------------------------------------------------------------------|--------|------------|------|---------|-----------|-----------|----------|
| L2756078-1 PLOT 4 - 6 JARS<br>Sampled By: LdB/JK on 25-MAY-24<br>Matrix: Tissue |        |            |      |         |           |           |          |
| Miscellaneous Parameters                                                        |        |            |      |         |           |           |          |
| % Moisture                                                                      | 72.0   |            | 0.10 | %       | 06-JUL-24 | 08-JUL-24 | R5984098 |
| All PCB congeners by GC/HRMS                                                    |        |            |      |         |           |           |          |
| PCB 1                                                                           | 0.91   | M,J        | 0.52 | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 2                                                                           | <0.57  | M,U        | 0.57 | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 3                                                                           | <0.61  | [U]        | 0.61 | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 4                                                                           | <4.0   | [U]        | 4.0  | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 10                                                                          | <2.4   | [U]        | 2.4  | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 9                                                                           | <2.5   | [U]        | 2.5  | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 7                                                                           | <2.6   | [U]        | 2.6  | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 6                                                                           | <2.5   | [U]        | 2.5  | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 5                                                                           | <2.9   | [U]        | 2.9  | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 8                                                                           | <2.2   | [U]        | 2.2  | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 14                                                                          | <3.4   | [U]        | 3.4  | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 11                                                                          | 26.8   |            | 3.4  | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 13/12                                                                       | <3.3   | [U]        | 3.3  | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 15                                                                          | <3.8   | [U]        | 3.8  | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 19                                                                          | <1.2   | [U]        | 1.2  | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 30/18                                                                       | 1.8    | J,R        | 1.1  | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 17                                                                          | <1.3   | M,U        | 1.3  | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 27                                                                          | <1.0   | [U]        | 1.0  | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 24                                                                          | <1.1   | [U]        | 1.1  | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 16                                                                          | <1.5   | [U]        | 1.5  | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 32                                                                          | <0.91  | M,U        | 0.91 | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 34                                                                          | <1.7   | [U]        | 1.7  | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 23                                                                          | <1.7   | [U]        | 1.7  | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 29/26                                                                       | 1.7    | J,R        | 1.6  | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 25                                                                          | <1.6   | [U]        | 1.6  | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 31                                                                          | 8.8    | [J]        | 1.5  | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 28/20                                                                       | 134    |            | 1.6  | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 21/33                                                                       | 5.9    | [J]        | 1.6  | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 22                                                                          | 3.0    | J,R        | 1.8  | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 36                                                                          | <1.5   | [U]        | 1.5  | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 39                                                                          | <1.9   | [U]        | 1.9  | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 38                                                                          | <1.8   | [U]        | 1.8  | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 35                                                                          | <1.8   | [U]        | 1.8  | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 37                                                                          | 25.7   |            | 1.9  | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 54                                                                          | <0.45  | [U]        | 0.45 | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 50/53                                                                       | <0.95  | [U]        | 0.95 | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 45/51                                                                       | <1.0   | [U]        | 1.0  | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 46                                                                          | <1.1   | [U]        | 1.1  | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 52                                                                          | 24.9   |            | 1.1  | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 73                                                                          | <0.68  | [U]        | 0.68 | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 43                                                                          | <1.1   | [U]        | 1.1  | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 69/49                                                                       | 6.10   | J,R        | 0.84 | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 48                                                                          | 1.42   | [J]        | 0.98 | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 44/47/65                                                                    | 22.0   |            | 0.85 | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 59/62/75                                                                    | 3.30   | J,R        | 0.71 | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 42                                                                          | 2.1    | [J]        | 1.1  | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 41/71/40                                                                    | 3.25   | [J]        | 0.99 | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 64                                                                          | 8.00   | J,R        | 0.73 | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 72                                                                          | <1.6   | [U]        | 1.6  | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters       | Result | Qualifier* | D.L. | Units    | Extracted | Analyzed  | Batch    |
|---------------------------------|--------|------------|------|----------|-----------|-----------|----------|
| L2756078-1 PLOT 4 - 6 JARS      |        |            |      |          |           |           |          |
| Sampled By: LdB/JK on 25-MAY-24 |        |            |      |          |           |           |          |
| Matrix: Tissue                  |        |            |      |          |           |           |          |
| All PCB congeners by GC/HRMS    |        |            |      |          |           |           |          |
| PCB 68                          | <1.5   | [U]        | 1.5  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 57                          | <1.7   | [U]        | 1.7  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 58                          | <1.6   | [U]        | 1.6  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 67                          | <1.4   | [U]        | 1.4  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 63                          | 10.7   |            | 1.5  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 61/70/74/76                 | 808    |            | 1.5  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 66                          | 208    |            | 1.5  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 55                          | <1.7   | [U]        | 1.7  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 56                          | 13.0   | R          | 1.5  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 60                          | 139    |            | 1.6  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 80                          | <1.3   | [U]        | 1.3  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 79                          | 4.7    | M,J        | 1.4  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 78                          | <1.8   | [U]        | 1.8  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 81                          | 21.0   | M,R        | 1.7  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 77                          | 235    |            | 1.8  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 104                         | <0.66  | [U]        | 0.66 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 96                          | <0.80  | [U]        | 0.80 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 103                         | <1.7   | [U]        | 1.7  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 94                          | <1.9   | [U]        | 1.9  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 95                          | 52.9   | M          | 2.2  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 100/93/102/98               | <1.6   | M,U        | 1.6  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 88/91                       | 8.2    | [J]        | 1.8  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 84                          | 12.3   |            | 1.8  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 89                          | <2.2   | [U]        | 2.2  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 121                         | <1.2   | [U]        | 1.2  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 92                          | 38.2   |            | 2.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 113/90/101                  | 206    |            | 1.4  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 83/99                       | 772    |            | 1.9  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 112                         | <1.2   | [U]        | 1.2  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 109/119/86/97/125/87        | 101    | M          | 1.4  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 117/116/85/110/115          | 486    | M          | 1.3  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 82                          | 21.7   | M          | 2.3  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 111                         | 2.3    | J,R        | 1.2  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 120                         | 8.9    | J,R        | 1.2  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 108/124                     | 24.6   |            | 2.3  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 107                         | 253    | M          | 2.2  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 123                         | 33.1   | M          | 2.7  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 106                         | <2.5   | [U]        | 2.5  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 118                         | 11700  |            | 1.9  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 122                         | 33.0   | R          | 3.1  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 114                         | 219    |            | 2.8  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 105                         | 2280   |            | 2.5  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 127                         | 7.2    | J,R        | 2.5  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 126                         | 637    | M          | 0.25 | pg/g wwt | 06-JUL-24 | 13-AUG-24 | R5984556 |
| PCB 155                         | <0.26  | [U]        | 0.26 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 152                         | <0.52  | [U]        | 0.52 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 150                         | 0.41   | J,R        | 0.40 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 136                         | 13.3   |            | 0.47 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 145                         | <0.45  | [U]        | 0.45 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 148                         | <0.62  | [U]        | 0.62 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 151/135                     | 188    |            | 0.71 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters                                                       | Result | Qualifier* | D.L. | Units     | Extracted | Analyzed  | Batch    |
|---------------------------------------------------------------------------------|--------|------------|------|-----------|-----------|-----------|----------|
| L2756078-1 PLOT 4 - 6 JARS<br>Sampled By: LdB/JK on 25-MAY-24<br>Matrix: Tissue |        |            |      |           |           |           |          |
| All PCB congeners by GC/HRMS                                                    |        |            |      |           |           |           |          |
| PCB 154                                                                         | <0.40  | [U]        | 0.40 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 144                                                                         | 21.0   |            | 0.63 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 147/149                                                                     | 314    |            | 3.0  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 134/143                                                                     | 9.8    |            | 3.8  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 139/140                                                                     | 23.2   |            | 3.0  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 131                                                                         | <3.9   | [U]        | 3.9  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 142                                                                         | <3.8   | [U]        | 3.8  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 132                                                                         | 115    |            | 3.6  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 133                                                                         | 111    |            | 3.4  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 165                                                                         | 8.9    | [J]        | 2.5  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 146                                                                         | 729    |            | 2.9  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 161                                                                         | <2.2   | [U]        | 2.2  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 168/153                                                                     | 8270   |            | 2.3  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 141                                                                         | 188    |            | 3.0  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 130                                                                         | 382    |            | 3.7  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 137/164                                                                     | 146    | M          | 2.7  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 138/163/129                                                                 | 8050   |            | 3.0  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 160                                                                         | <2.4   | [U]        | 2.4  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 158                                                                         | 421    |            | 1.9  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 128/166                                                                     | 699    | M          | 2.6  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 159                                                                         | 13.4   |            | 2.2  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 162                                                                         | 71.5   |            | 2.3  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 167                                                                         | 1360   |            | 2.0  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 156/157                                                                     | 2950   |            | 3.4  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 169                                                                         | 34.2   |            | 0.14 | pg/g wwft | 06-JUL-24 | 13-AUG-24 | R5984556 |
| PCB 188                                                                         | <0.96  | [U]        | 0.96 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 179                                                                         | 32.2   |            | 1.1  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 184                                                                         | <1.1   | [U]        | 1.1  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 176                                                                         | 14.2   |            | 1.1  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 186                                                                         | <1.2   | [U]        | 1.2  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 178                                                                         | 1310   |            | 1.7  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 175                                                                         | 51.8   |            | 1.6  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 187                                                                         | 7840   |            | 1.5  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 182                                                                         | <1.4   | [U]        | 1.4  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 183                                                                         | 1770   |            | 1.5  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 185                                                                         | 37.0   | R          | 1.7  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 174                                                                         | 201    |            | 1.5  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 177                                                                         | 3460   |            | 1.6  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 181                                                                         | 18.0   | R          | 1.7  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 171/173                                                                     | 414    |            | 19   | pg/g wwft | 06-JUL-24 | 19-JUL-24 | R5984556 |
| PCB 172                                                                         | 2030   |            | 1.6  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 192                                                                         | <1.4   | [U]        | 1.4  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 180/193                                                                     | 20900  |            | 1.4  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 191                                                                         | 39.0   | R          | 1.2  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 170                                                                         | 3160   |            | 1.7  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 190                                                                         | 2640   |            | 1.0  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 189                                                                         | 689    |            | 1.5  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 202                                                                         | 495    |            | 0.38 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 201                                                                         | 77.0   |            | 0.43 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 204                                                                         | <0.42  | [U]        | 0.42 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 197                                                                         | 47.5   |            | 0.47 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters                                                       | Result | Qualifier* | D.L.   | Units    | Extracted | Analyzed  | Batch    |
|---------------------------------------------------------------------------------|--------|------------|--------|----------|-----------|-----------|----------|
| L2756078-1 PLOT 4 - 6 JARS<br>Sampled By: LdB/JK on 25-MAY-24<br>Matrix: Tissue |        |            |        |          |           |           |          |
| All PCB congeners by GC/HRMS                                                    |        |            |        |          |           |           |          |
| PCB 200                                                                         | 7.40   | J,R        | 0.47   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 198/199                                                                     | 9380   |            | 0.63   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 196                                                                         | 701    |            | 0.63   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 203                                                                         | 4160   |            | 0.60   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 195                                                                         | 1530   |            | 1.7    | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 194                                                                         | 9330   |            | 1.6    | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 205                                                                         | 499    |            | 1.6    | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 208                                                                         | 224    |            | 10     | pg/g wwt | 06-JUL-24 | 19-JUL-24 | R5984556 |
| PCB 207                                                                         | 57.4   |            | 0.79   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 206                                                                         | 1910   |            | 1.1    | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 209                                                                         | 145    |            | 0.24   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 1                                                          | 34.0   |            | 5-145  | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 3                                                          | 37.0   |            | 5-145  | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 4                                                          | 47.0   |            | 5-145  | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 15                                                         | 44.0   |            | 5-145  | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 19                                                         | 50.0   |            | 5-145  | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 37                                                         | 58.0   |            | 5-145  | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 54                                                         | 53.0   |            | 5-145  | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 81                                                         | 70.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 77                                                         | 66.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 104                                                        | 61.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 123                                                        | 72.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 118                                                        | 94.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 114                                                        | 70.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 105                                                        | 75.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 126                                                        | 82.0   |            | 10-145 | %        | 06-JUL-24 | 13-AUG-24 | R5984556 |
| Surrogate: 13C12 PCB 155                                                        | 76.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 167                                                        | 76.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 156/157                                                    | 69.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 169                                                        | 90.0   |            | 10-145 | %        | 06-JUL-24 | 13-AUG-24 | R5984556 |
| Surrogate: 13C12 PCB 188                                                        | 69.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 189                                                        | 70.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 202                                                        | 79.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 205                                                        | 74.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 208                                                        | 74.0   | R          | 10-145 | %        | 06-JUL-24 | 19-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 206                                                        | 76.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 209                                                        | 83.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 28                                                         | 55.0   |            | 5-145  | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 111                                                        | 71.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 178                                                        | 70.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total MonoCB                                                                    | 0.91   | [J]        | 0.52   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total DiCB                                                                      | 26.8   | [J]        | 2.2    | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total TriCB                                                                     | 181    | [J]        | 0.91   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total TetraCB                                                                   | 1510   | [J]        | 0.45   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total PentaCB                                                                   | 16900  | [J]        | 0.25   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total HexaCB                                                                    | 24100  | [J]        | 0.14   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total HeptaCB                                                                   | 44600  | [J]        | 0.96   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total OctaCB                                                                    | 26200  | [J]        | 0.38   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total NonaCB                                                                    | 2190   | [J]        | 0.79   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| DecaCB                                                                          | 145    | [J]        | 0.24   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total PCB                                                                       | 116000 | [J]        | 1.0    | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters            | Result | Qualifier* | D.L.   | Units    | Extracted | Analyzed  | Batch    |
|--------------------------------------|--------|------------|--------|----------|-----------|-----------|----------|
| L2756078-1 PLOT 4 - 6 JARS           |        |            |        |          |           |           |          |
| Sampled By: LdB/JK on 25-MAY-24      |        |            |        |          |           |           |          |
| Matrix: Tissue                       |        |            |        |          |           |           |          |
| All PCB congeners by GC/HRMS         |        |            |        |          |           |           |          |
| Lower Bound PCB TEQ (WHO 2005)       | 65.3   |            |        | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Mid Point PCB TEQ (WHO 2005)         | 65.3   |            |        | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Upper Bound PCB TEQ (WHO 2005)       | 65.3   |            |        | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Dioxins and Furans HR 1613B          |        |            |        |          |           |           |          |
| 2,3,7,8-TCDD                         | 0.226  | [J]        | 0.049  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| 1,2,3,7,8-PeCDD                      | 1.82   | [J]        | 0.063  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| 1,2,3,4,7,8-HxCDD                    | 0.793  | [J]        | 0.066  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| 1,2,3,6,7,8-HxCDD                    | 1.48   | [J]        | 0.066  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| 1,2,3,7,8,9-HxCDD                    | 0.660  | M,J,R      | 0.064  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| 1,2,3,4,6,7,8-HpCDD                  | 3.63   | [J]        | 0.057  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| OCDD                                 | 4.27   | [J]        | 0.12   | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| 2,3,7,8-TCDF                         | 13.2   | M          | 0.099  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| 1,2,3,7,8-PeCDF                      | 4.96   | [J]        | 0.12   | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| 2,3,4,7,8-PeCDF                      | 12.9   |            | 0.092  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| 1,2,3,4,7,8-HxCDF                    | 1.84   | [J]        | 0.055  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| 1,2,3,6,7,8-HxCDF                    | 2.22   | [J]        | 0.060  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| 2,3,4,6,7,8-HxCDF                    | 4.46   | [J]        | 0.059  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| 1,2,3,7,8,9-HxCDF                    | <0.075 | M,U        | 0.075  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| 1,2,3,4,6,7,8-HpCDF                  | 2.94   | [J]        | 0.068  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| 1,2,3,4,7,8,9-HpCDF                  | 0.280  | M,J,R      | 0.099  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| OCDF                                 | 0.64   | J,R        | 0.10   | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Total-TCDD                           | 0.226  |            | 0.049  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Total TCDD # Homologues              | 1      |            |        |          | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Total-PeCDD                          | 2.29   |            | 0.063  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Total PeCDD # Homologues             | 2      |            |        |          | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Total-HxCDD                          | 3.82   |            | 0.066  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Total HxCDD # Homologues             | 5      |            |        |          | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Total-HpCDD                          | 5.27   |            | 0.057  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Total HpCDD # Homologues             | 2      |            |        |          | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Total-TCDF                           | 16.7   |            | 0.099  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Total TCDF # Homologues              | 11     |            |        |          | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Total-PeCDF                          | 27.5   |            | 0.12   | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Total PeCDF # Homologues             | 7      |            |        |          | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Total-HxCDF                          | 12.1   |            | 0.075  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Total HxCDF # Homologues             | 7      |            |        |          | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Total-HpCDF                          | 3.16   |            | 0.099  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Total HpCDF # Homologues             | 2      |            |        |          | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12-2,3,7,8-TCDD        | 74.0   |            | 25-164 | %        | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,7,8-PeCDD     | 75.0   |            | 25-181 | %        | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,4,7,8-HxCDD   | 84.0   |            | 32-141 | %        | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,6,7,8-HxCDD   | 81.0   |            | 28-130 | %        | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,4,6,7,8-HpCDD | 85.0   |            | 23-140 | %        | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12-OCDD                | 79.0   |            | 17-157 | %        | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12-2,3,7,8-TCDF        | 74.0   |            | 24-169 | %        | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,7,8-PeCDF     | 70.0   |            | 21-192 | %        | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12-2,3,4,7,8-PeCDF     | 80.0   |            | 21-178 | %        | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,4,7,8-HxCDF   | 86.0   |            | 26-152 | %        | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,6,7,8-HxCDF   | 81.0   |            | 26-123 | %        | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12-2,3,4,6,7,8-HxCDF   | 81.0   |            | 29-147 | %        | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,7,8,9-HxCDF   | 87.0   |            | 28-136 | %        | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,4,6,7,8-HpCDF | 88.0   |            | 28-143 | %        | 06-JUL-24 | 15-JUL-24 | R5984556 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

# ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters               |                     | Result | Qualifier* | D.L.   | Units     | Extracted | Analyzed  | Batch    |
|-----------------------------------------|---------------------|--------|------------|--------|-----------|-----------|-----------|----------|
| L2756078-1                              | PLOT 4 - 6 JARS     |        |            |        |           |           |           |          |
| Sampled By:                             | LdB/JK on 25-MAY-24 |        |            |        |           |           |           |          |
| Matrix:                                 | Tissue              |        |            |        |           |           |           |          |
| <b>Dioxins and Furans HR 1613B</b>      |                     |        |            |        |           |           |           |          |
| Surrogate: 13C12-1,2,3,4,7,8,9-HpCDF    |                     | 87.0   |            | 26-138 | %         | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 37Cl4-2,3,7,8-TCDD (Cleanup) |                     | 61.0   |            | 31-197 | %         | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Lower Bound PCDD/F TEQ (WHO 2005)       |                     | 8.53   |            | 0      | pg/g wwft | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Mid Point PCDD/F TEQ (WHO 2005)         |                     | 8.60   |            | 0      | pg/g wwft | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Upper Bound PCDD/F TEQ (WHO 2005)       |                     | 8.61   |            | 0      | pg/g wwft | 06-JUL-24 | 15-JUL-24 | R5984556 |
| L2756078-2                              | PLOT 11 - 4 JARS    |        |            |        |           |           |           |          |
| Sampled By:                             | LdB/JK on 25-MAY-24 |        |            |        |           |           |           |          |
| Matrix:                                 | Tissue              |        |            |        |           |           |           |          |
| <b>Miscellaneous Parameters</b>         |                     |        |            |        |           |           |           |          |
| % Moisture                              |                     | 70.9   |            | 0.10   | %         | 06-JUL-24 | 08-JUL-24 | R5984098 |
| <b>All PCB congeners by GC/HRMS</b>     |                     |        |            |        |           |           |           |          |
| PCB 1                                   |                     | 1.04   | [J]        | 0.38   | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 2                                   |                     | <0.41  | [U]        | 0.41   | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 3                                   |                     | 1.61   | M,J        | 0.44   | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 4                                   |                     | <3.8   | [U]        | 3.8    | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 10                                  |                     | <2.2   | [U]        | 2.2    | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 9                                   |                     | <2.3   | [U]        | 2.3    | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 7                                   |                     | <2.4   | [U]        | 2.4    | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 6                                   |                     | <2.3   | [U]        | 2.3    | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 5                                   |                     | <2.7   | [U]        | 2.7    | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 8                                   |                     | <2.0   | [U]        | 2.0    | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 14                                  |                     | <3.9   | [U]        | 3.9    | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 11                                  |                     | 34.3   |            | 3.9    | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 13/12                               |                     | <3.8   | [U]        | 3.8    | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 15                                  |                     | <4.3   | [U]        | 4.3    | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 19                                  |                     | <1.2   | [U]        | 1.2    | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 30/18                               |                     | 2.0    | [J]        | 1.1    | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 17                                  |                     | <1.3   | [U]        | 1.3    | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 27                                  |                     | <0.96  | [U]        | 0.96   | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 24                                  |                     | <1.1   | [U]        | 1.1    | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 16                                  |                     | <1.4   | M,U        | 1.4    | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 32                                  |                     | <0.87  | [U]        | 0.87   | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 34                                  |                     | <1.0   | [U]        | 1.0    | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 23                                  |                     | <0.98  | [U]        | 0.98   | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 29/26                               |                     | <0.94  | [U]        | 0.94   | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 25                                  |                     | <0.92  | [U]        | 0.92   | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 31                                  |                     | 3.11   | [J]        | 0.90   | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 28/20                               |                     | 19.0   |            | 0.97   | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 21/33                               |                     | 2.20   | J,R        | 0.95   | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 22                                  |                     | <1.1   | [U]        | 1.1    | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 36                                  |                     | <0.90  | [U]        | 0.90   | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 39                                  |                     | <1.1   | [U]        | 1.1    | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 38                                  |                     | <1.0   | [U]        | 1.0    | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 35                                  |                     | <1.1   | [U]        | 1.1    | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 37                                  |                     | 10.2   |            | 1.1    | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 54                                  |                     | <0.26  | [U]        | 0.26   | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 50/53                               |                     | <0.81  | [U]        | 0.81   | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 45/51                               |                     | <0.85  | [U]        | 0.85   | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 46                                  |                     | <0.92  | [U]        | 0.92   | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 52                                  |                     | 9.54   | [J]        | 0.92   | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 73                                  |                     | <0.58  | [U]        | 0.58   | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters                                                        | Result | Qualifier* | D.L. | Units     | Extracted | Analyzed  | Batch    |
|----------------------------------------------------------------------------------|--------|------------|------|-----------|-----------|-----------|----------|
| L2756078-2 PLOT 11 - 4 JARS<br>Sampled By: LdB/JK on 25-MAY-24<br>Matrix: Tissue |        |            |      |           |           |           |          |
| All PCB congeners by GC/HRMS                                                     |        |            |      |           |           |           |          |
| PCB 43                                                                           | <0.91  | [U]        | 0.91 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 69/49                                                                        | 1.40   | M,J,R      | 0.71 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 48                                                                           | <0.83  | [U]        | 0.83 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 44/47/65                                                                     | 6.47   | [J]        | 0.72 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 59/62/75                                                                     | 0.82   | J,R        | 0.60 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 42                                                                           | <0.93  | [U]        | 0.93 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 41/71/40                                                                     | 1.37   | M,J        | 0.84 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 64                                                                           | 2.30   | J,R        | 0.62 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 72                                                                           | <0.92  | [U]        | 0.92 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 68                                                                           | <0.88  | [U]        | 0.88 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 57                                                                           | <0.96  | [U]        | 0.96 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 58                                                                           | <0.91  | [U]        | 0.91 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 67                                                                           | <0.81  | [U]        | 0.81 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 63                                                                           | 1.20   | J,R        | 0.88 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 61/70/74/76                                                                  | 129    |            | 0.89 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 66                                                                           | 24.3   |            | 0.88 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 55                                                                           | <0.98  | [U]        | 0.98 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 56                                                                           | 2.93   | [J]        | 0.89 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 60                                                                           | 17.5   |            | 0.95 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 80                                                                           | <0.77  | [U]        | 0.77 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 79                                                                           | 0.94   | J,R        | 0.82 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 78                                                                           | <1.0   | [U]        | 1.0  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 81                                                                           | 4.70   | J,R        | 0.98 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 77                                                                           | 68.6   |            | 1.1  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 104                                                                          | <0.63  | [U]        | 0.63 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 96                                                                           | <0.88  | [U]        | 0.88 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 103                                                                          | <1.3   | [U]        | 1.3  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 94                                                                           | <1.4   | [U]        | 1.4  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 95                                                                           | 12.2   |            | 1.7  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 100/93/102/98                                                                | <1.3   | [U]        | 1.3  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 88/91                                                                        | <1.4   | [U]        | 1.4  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 84                                                                           | 2.3    | J,R        | 1.4  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 89                                                                           | <1.7   | [U]        | 1.7  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 121                                                                          | <0.96  | [U]        | 0.96 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 92                                                                           | 9.7    |            | 1.5  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 113/90/101                                                                   | 38.5   |            | 1.1  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 83/99                                                                        | 100    |            | 1.4  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 112                                                                          | <0.91  | [U]        | 0.91 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 109/119/86/97/125/87                                                         | 17.7   | M          | 1.1  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 117/116/85/110/115                                                           | 87.1   | M          | 1.0  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 82                                                                           | 3.8    | [J]        | 1.7  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 111                                                                          | <0.94  | [U]        | 0.94 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 120                                                                          | 1.30   | J,R        | 0.90 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 108/124                                                                      | 6.4    | J,R        | 1.3  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 107                                                                          | 36.3   | M          | 1.3  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 123                                                                          | 3.9    | M,J,R      | 1.5  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 106                                                                          | <1.4   | [U]        | 1.4  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 118                                                                          | 2200   |            | 1.2  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 122                                                                          | <1.8   | [U]        | 1.8  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 114                                                                          | 27.0   | R          | 1.6  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 105                                                                          | 312    |            | 1.5  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters       | Result | Qualifier* | D.L. | Units    | Extracted | Analyzed  | Batch    |
|---------------------------------|--------|------------|------|----------|-----------|-----------|----------|
| L2756078-2 PLOT 11 - 4 JARS     |        |            |      |          |           |           |          |
| Sampled By: LdB/JK on 25-MAY-24 |        |            |      |          |           |           |          |
| Matrix: Tissue                  |        |            |      |          |           |           |          |
| All PCB congeners by GC/HRMS    |        |            |      |          |           |           |          |
| PCB 127                         | <1.4   | [U]        | 1.4  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 126                         | 107    |            | 0.28 | pg/g wwt | 06-JUL-24 | 10-AUG-24 | R5984556 |
| PCB 155                         | <0.28  | [U]        | 0.28 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 152                         | <0.54  | [U]        | 0.54 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 150                         | <0.42  | [U]        | 0.42 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 136                         | 2.50   | J,R        | 0.49 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 145                         | <0.48  | [U]        | 0.48 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 148                         | <0.65  | [U]        | 0.65 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 151/135                     | 39.5   |            | 0.75 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 154                         | <0.42  | [U]        | 0.42 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 144                         | 3.79   | M,J        | 0.66 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 147/149                     | 59.2   |            | 2.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 134/143                     | 2.9    | [J]        | 2.6  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 139/140                     | 3.8    | J,R        | 2.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 131                         | <2.6   | [U]        | 2.6  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 142                         | <2.6   | [U]        | 2.6  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 132                         | 19.7   |            | 2.4  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 133                         | 5.7    | J,R        | 2.3  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 165                         | <1.7   | [U]        | 1.7  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 146                         | 87.7   |            | 2.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 161                         | <1.5   | [U]        | 1.5  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 168/153                     | 1700   |            | 1.6  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 141                         | 46.0   |            | 2.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 130                         | 66.4   |            | 2.5  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 137/164                     | 25.7   | M          | 1.8  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 138/163/129                 | 1540   |            | 2.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 160                         | <1.6   | [U]        | 1.6  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 158                         | 92.3   |            | 1.3  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 128/166                     | 143    | M          | 1.8  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 159                         | 3.9    | [J]        | 1.5  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 162                         | 13.8   |            | 1.6  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 167                         | 329    |            | 1.4  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 156/157                     | 728    |            | 2.2  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 169                         | 8.70   | M          | 0.13 | pg/g wwt | 06-JUL-24 | 10-AUG-24 | R5984556 |
| PCB 188                         | <0.81  | [U]        | 0.81 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 179                         | 6.58   | [J]        | 0.96 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 184                         | <0.91  | [U]        | 0.91 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 176                         | 2.64   | [J]        | 0.96 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 186                         | <1.0   | [U]        | 1.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 178                         | 268    |            | 1.4  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 175                         | 6.8    | J,R        | 1.3  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 187                         | 1370   |            | 1.2  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 182                         | 1.8    | J,R        | 1.2  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 183                         | 245    |            | 1.2  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 185                         | 10.4   |            | 1.5  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 174                         | 37.7   |            | 1.3  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 177                         | 837    |            | 1.4  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 181                         | 5.4    | J,R        | 1.4  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 171/173                     | 95     | J,R        | 11   | pg/g wwt | 06-JUL-24 | 19-JUL-24 | R5984556 |
| PCB 172                         | 268    |            | 1.4  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 192                         | <1.2   | [U]        | 1.2  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.



ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters       | Result | Qualifier* | D.L.   | Units    | Extracted | Analyzed  | Batch    |
|---------------------------------|--------|------------|--------|----------|-----------|-----------|----------|
| L2756078-2 PLOT 11 - 4 JARS     |        |            |        |          |           |           |          |
| Sampled By: LdB/JK on 25-MAY-24 |        |            |        |          |           |           |          |
| Matrix: Tissue                  |        |            |        |          |           |           |          |
| All PCB congeners by GC/HRMS    |        |            |        |          |           |           |          |
| PCB 180/193                     | 5030   | J,R        | 1.1    | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 191                         | 7.40   |            | 0.98   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 170                         | 758    |            | 1.4    | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 190                         | 726    |            | 0.87   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 189                         | 198    | [U]        | 0.83   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 202                         | 145    |            | 0.40   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 201                         | 17.1   |            | 0.44   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 204                         | <0.43  |            | 0.43   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 197                         | 12.3   | J,R        | 0.48   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 200                         | 1.20   |            | 0.48   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 198/199                     | 1970   |            | 0.64   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 196                         | 114    |            | 0.64   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 203                         | 1090   | [J]        | 0.61   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 195                         | 447    |            | 1.0    | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 194                         | 2550   |            | 0.99   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 205                         | 155    |            | 0.96   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 208                         | 58     | [J]        | 12     | pg/g wwt | 06-JUL-24 | 19-JUL-24 | R5984556 |
| PCB 207                         | 18.6   |            | 1.0    | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 206                         | 532    |            | 1.4    | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 209                         | 87.0   |            | 0.16   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 1          | 35.0   |            | 5-145  | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 3          | 41.0   |            | 5-145  | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 4          | 49.0   |            | 5-145  | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 15         | 47.0   |            | 5-145  | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 19         | 51.0   |            | 5-145  | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 37         | 63.0   |            | 5-145  | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 54         | 57.0   |            | 5-145  | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 81         | 71.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 77         | 68.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 104        | 67.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 123        | 75.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 118        | 86.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 114        | 74.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 105        | 76.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 126        | 61.0   |            | 10-145 | %        | 06-JUL-24 | 10-AUG-24 | R5984556 |
| Surrogate: 13C12 PCB 155        | 75.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 167        | 72.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 156/157    | 69.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 169        | 82.0   |            | 10-145 | %        | 06-JUL-24 | 10-AUG-24 | R5984556 |
| Surrogate: 13C12 PCB 188        | 66.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 189        | 71.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 202        | 73.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 205        | 72.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 208        | 70.0   |            | 10-145 | %        | 06-JUL-24 | 19-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 206        | 77.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 209        | 83.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 28         | 51.0   |            | 5-145  | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 111        | 65.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 178        | 66.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total MonoCB                    | 2.65   | [J]        | 0.38   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total DiCB                      | 34.3   | [J]        | 2.0    | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters            | Result | Qualifier* | D.L.   | Units    | Extracted | Analyzed  | Batch    |
|--------------------------------------|--------|------------|--------|----------|-----------|-----------|----------|
| L2756078-2     PLOT 11 - 4 JARS      |        |            |        |          |           |           |          |
| Sampled By:     LdB/JK on 25-MAY-24  |        |            |        |          |           |           |          |
| Matrix:            Tissue            |        |            |        |          |           |           |          |
| <b>All PCB congeners by GC/HRMS</b>  |        |            |        |          |           |           |          |
| Total TriCB                          | 36.5   | [J]        | 0.87   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total TetraCB                        | 271    | [J]        | 0.26   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total PentaCB                        | 2970   | [J]        | 0.28   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total HexaCB                         | 4920   | [J]        | 0.13   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total HeptaCB                        | 9870   | [J]        | 0.81   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total OctaCB                         | 6500   | [J]        | 0.40   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total NonaCB                         | 609    | [J]        | 1.0    | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| DecaCB                               | 87.0   | [J]        | 0.16   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total PCB                            | 25300  | [J]        | 1.0    | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Lower Bound PCB TEQ (WHO 2005)       | 11.1   |            |        | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Mid Point PCB TEQ (WHO 2005)         | 11.1   |            |        | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Upper Bound PCB TEQ (WHO 2005)       | 11.1   |            |        | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| <b>Dioxins and Furans HR 1613B</b>   |        |            |        |          |           |           |          |
| 2,3,7,8-TCDD                         | 0.082  | M,J        | 0.064  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| 1,2,3,7,8-PeCDD                      | 0.754  | M,J        | 0.093  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| 1,2,3,4,7,8-HxCDD                    | 0.30   | J,R        | 0.11   | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| 1,2,3,6,7,8-HxCDD                    | 0.55   | M,J        | 0.12   | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| 1,2,3,7,8,9-HxCDD                    | 0.24   | [J]        | 0.11   | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| 1,2,3,4,6,7,8-HpCDD                  | 0.760  | M,J,R      | 0.031  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| OCDD                                 | 1.29   | M,J        | 0.10   | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| 2,3,7,8-TCDF                         | 2.00   | M,R        | 0.091  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| 1,2,3,7,8-PeCDF                      | 1.34   | [J]        | 0.14   | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| 2,3,4,7,8-PeCDF                      | 2.63   | [J]        | 0.12   | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| 1,2,3,4,7,8-HxCDF                    | 0.650  | J,R        | 0.053  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| 1,2,3,6,7,8-HxCDF                    | 0.836  | [J]        | 0.059  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| 2,3,4,6,7,8-HxCDF                    | 0.762  | [J]        | 0.053  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| 1,2,3,7,8,9-HxCDF                    | <0.067 | M,U        | 0.067  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| 1,2,3,4,6,7,8-HpCDF                  | 0.587  | [J]        | 0.061  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| 1,2,3,4,7,8,9-HpCDF                  | 0.100  | M,J        | 0.089  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| OCDF                                 | 0.21   | M,J,R      | 0.11   | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Total-TCDD                           | 0.082  |            | 0.064  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Total TCDD # Homologues              | 1      |            |        |          | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Total-PeCDD                          | 0.754  |            | 0.093  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Total PeCDD # Homologues             | 1      |            |        |          | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Total-HxCDD                          | 1.37   |            | 0.12   | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Total HxCDD # Homologues             | 3      |            |        |          | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Total-HpCDD                          | <0.031 | [U]        | 0.031  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Total HpCDD # Homologues             | 0      |            |        |          | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Total-TCDF                           | 0.271  |            | 0.091  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Total TCDF # Homologues              | 3      |            |        |          | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Total-PeCDF                          | 6.23   |            | 0.14   | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Total PeCDF # Homologues             | 4      |            |        |          | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Total-HxCDF                          | 2.33   |            | 0.067  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Total HxCDF # Homologues             | 5      |            |        |          | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Total-HpCDF                          | 0.687  |            | 0.089  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Total HpCDF # Homologues             | 2      |            |        |          | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12-2,3,7,8-TCDD        | 55.0   |            | 25-164 | %        | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,7,8-PeCDD     | 58.0   |            | 25-181 | %        | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,4,7,8-HxCDD   | 63.0   |            | 32-141 | %        | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,6,7,8-HxCDD   | 65.0   |            | 28-130 | %        | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,4,6,7,8-HpCDD | 67.0   |            | 23-140 | %        | 06-JUL-24 | 15-JUL-24 | R5984556 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

# ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters               |  | Result | Qualifier* | D.L.   | Units     | Extracted | Analyzed  | Batch    |
|-----------------------------------------|--|--------|------------|--------|-----------|-----------|-----------|----------|
| L2756078-2 PLOT 11 - 4 JARS             |  |        |            |        |           |           |           |          |
| Sampled By: LdB/JK on 25-MAY-24         |  |        |            |        |           |           |           |          |
| Matrix: Tissue                          |  |        |            |        |           |           |           |          |
| Dioxins and Furans HR 1613B             |  |        |            |        |           |           |           |          |
| Surrogate: 13C12-OCDD                   |  | 64.0   |            | 17-157 | %         | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12-2,3,7,8-TCDF           |  | 54.0   |            | 24-169 | %         | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,7,8-PeCDF        |  | 54.0   |            | 21-192 | %         | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12-2,3,4,7,8-PeCDF        |  | 60.0   |            | 21-178 | %         | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,4,7,8-HxCDF      |  | 65.0   |            | 26-152 | %         | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,6,7,8-HxCDF      |  | 58.0   |            | 26-123 | %         | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12-2,3,4,6,7,8-HxCDF      |  | 64.0   |            | 29-147 | %         | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,7,8,9-HxCDF      |  | 70.0   |            | 28-136 | %         | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,4,6,7,8-HpCDF    |  | 70.0   |            | 28-143 | %         | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,4,7,8,9-HpCDF    |  | 69.0   |            | 26-138 | %         | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 37Cl4-2,3,7,8-TCDD (Cleanup) |  | 47.0   |            | 31-197 | %         | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Lower Bound PCDD/F TEQ (WHO 2005)       |  | 1.91   |            | 0      | pg/g wwtt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Mid Point PCDD/F TEQ (WHO 2005)         |  | 2.22   |            | 0      | pg/g wwtt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Upper Bound PCDD/F TEQ (WHO 2005)       |  | 2.22   |            | 0      | pg/g wwtt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| L2756078-3 PLOT 70 - 3 JARS             |  |        |            |        |           |           |           |          |
| Sampled By: LdB/JK on 25-MAY-24         |  |        |            |        |           |           |           |          |
| Matrix: Tissue                          |  |        |            |        |           |           |           |          |
| Miscellaneous Parameters                |  |        |            |        |           |           |           |          |
| % Moisture                              |  | 70.8   |            | 0.10   | %         | 06-JUL-24 | 08-JUL-24 | R5984098 |
| All PCB congeners by GC/HRMS            |  |        |            |        |           |           |           |          |
| PCB 1                                   |  | <0.44  | [U]        | 0.44   | pg/g wwtt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 2                                   |  | <0.49  | [U]        | 0.49   | pg/g wwtt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 3                                   |  | 0.55   | J,R        | 0.54   | pg/g wwtt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 4                                   |  | <3.4   | [U]        | 3.4    | pg/g wwtt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 10                                  |  | <2.0   | [U]        | 2.0    | pg/g wwtt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 9                                   |  | <2.1   | [U]        | 2.1    | pg/g wwtt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 7                                   |  | <2.1   | [U]        | 2.1    | pg/g wwtt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 6                                   |  | <2.1   | [U]        | 2.1    | pg/g wwtt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 5                                   |  | <2.4   | [U]        | 2.4    | pg/g wwtt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 8                                   |  | <1.8   | [U]        | 1.8    | pg/g wwtt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 14                                  |  | <2.8   | [U]        | 2.8    | pg/g wwtt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 11                                  |  | 32.3   |            | 2.8    | pg/g wwtt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 13/12                               |  | <2.7   | [U]        | 2.7    | pg/g wwtt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 15                                  |  | <3.0   | [U]        | 3.0    | pg/g wwtt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 19                                  |  | <0.97  | [U]        | 0.97   | pg/g wwtt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 30/18                               |  | 1.71   | M,J        | 0.74   | pg/g wwtt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 17                                  |  | <0.85  | [U]        | 0.85   | pg/g wwtt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 27                                  |  | <0.65  | [U]        | 0.65   | pg/g wwtt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 24                                  |  | <0.72  | [U]        | 0.72   | pg/g wwtt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 16                                  |  | <0.96  | [U]        | 0.96   | pg/g wwtt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 32                                  |  | <0.59  | [U]        | 0.59   | pg/g wwtt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 34                                  |  | <0.97  | [U]        | 0.97   | pg/g wwtt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 23                                  |  | <0.92  | [U]        | 0.92   | pg/g wwtt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 29/26                               |  | <0.89  | [U]        | 0.89   | pg/g wwtt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 25                                  |  | <0.87  | [U]        | 0.87   | pg/g wwtt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 31                                  |  | 2.00   | J,R        | 0.85   | pg/g wwtt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 28/20                               |  | 9.19   | [J]        | 0.91   | pg/g wwtt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 21/33                               |  | <0.90  | [U]        | 0.90   | pg/g wwtt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 22                                  |  | <1.0   | M,U        | 1.0    | pg/g wwtt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 36                                  |  | <0.84  | [U]        | 0.84   | pg/g wwtt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 39                                  |  | <1.0   | [U]        | 1.0    | pg/g wwtt | 06-JUL-24 | 14-JUL-24 | R5984556 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters                                                                                                             | Result | Qualifier* | D.L. | Units    | Extracted | Analyzed  | Batch    |
|---------------------------------------------------------------------------------------------------------------------------------------|--------|------------|------|----------|-----------|-----------|----------|
| L2756078-3     PLOT 70 - 3 JARS<br>Sampled By:    LdB/JK on 25-MAY-24<br>Matrix:        Tissue<br><b>All PCB congeners by GC/HRMS</b> |        |            |      |          |           |           |          |
| PCB 38                                                                                                                                | <0.98  | [U]        | 0.98 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 35                                                                                                                                | <1.0   | [U]        | 1.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 37                                                                                                                                | <1.0   | M,U        | 1.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 54                                                                                                                                | <0.34  | [U]        | 0.34 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 50/53                                                                                                                             | <0.86  | [U]        | 0.86 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 45/51                                                                                                                             | <0.90  | [U]        | 0.90 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 46                                                                                                                                | <0.98  | [U]        | 0.98 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 52                                                                                                                                | 5.00   | J,R        | 0.98 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 73                                                                                                                                | <0.62  | [U]        | 0.62 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 43                                                                                                                                | <0.97  | [U]        | 0.97 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 69/49                                                                                                                             | <0.76  | [U]        | 0.76 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 48                                                                                                                                | <0.89  | [U]        | 0.89 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 44/47/65                                                                                                                          | 4.97   | [J]        | 0.77 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 59/62/75                                                                                                                          | <0.64  | [U]        | 0.64 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 42                                                                                                                                | <0.99  | [U]        | 0.99 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 41/71/40                                                                                                                          | <0.90  | [U]        | 0.90 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 64                                                                                                                                | 0.94   | M,J,R      | 0.66 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 72                                                                                                                                | <0.55  | [U]        | 0.55 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 68                                                                                                                                | <0.53  | [U]        | 0.53 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 57                                                                                                                                | <0.57  | [U]        | 0.57 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 58                                                                                                                                | <0.55  | [U]        | 0.55 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 67                                                                                                                                | <0.49  | [U]        | 0.49 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 63                                                                                                                                | <0.53  | [U]        | 0.53 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 61/70/74/76                                                                                                                       | 7.70   | J,R        | 0.53 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 66                                                                                                                                | 2.40   | J,R        | 0.53 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 55                                                                                                                                | <0.59  | [U]        | 0.59 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 56                                                                                                                                | <0.53  | [U]        | 0.53 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 60                                                                                                                                | 1.94   | M,J        | 0.57 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 80                                                                                                                                | <0.46  | [U]        | 0.46 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 79                                                                                                                                | <0.49  | [U]        | 0.49 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 78                                                                                                                                | <0.62  | [U]        | 0.62 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 81                                                                                                                                | <0.62  | [U]        | 0.62 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 77                                                                                                                                | 1.20   | J,R        | 0.65 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 104                                                                                                                               | <0.59  | [U]        | 0.59 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 96                                                                                                                                | <0.79  | [U]        | 0.79 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 103                                                                                                                               | <0.96  | [U]        | 0.96 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 94                                                                                                                                | <1.0   | [U]        | 1.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 95                                                                                                                                | <1.2   | [U]        | 1.2  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 100/93/102/98                                                                                                                     | <0.90  | [U]        | 0.90 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 88/91                                                                                                                             | <0.98  | [U]        | 0.98 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 84                                                                                                                                | <1.0   | [U]        | 1.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 89                                                                                                                                | <1.2   | [U]        | 1.2  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 121                                                                                                                               | <0.69  | [U]        | 0.69 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 92                                                                                                                                | <1.1   | [U]        | 1.1  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 113/90/101                                                                                                                        | 2.60   | J,R        | 0.79 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 83/99                                                                                                                             | 7.4    | [J]        | 1.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 112                                                                                                                               | <0.65  | [U]        | 0.65 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 109/119/86/97/125/87                                                                                                              | <0.77  | [U]        | 0.77 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 117/116/85/110/115                                                                                                                | 2.60   | M,J,R      | 0.74 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 82                                                                                                                                | <1.3   | [U]        | 1.3  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 111                                                                                                                               | <0.68  | [U]        | 0.68 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters                                                                                                             | Result | Qualifier* | D.L. | Units    | Extracted | Analyzed  | Batch    |
|---------------------------------------------------------------------------------------------------------------------------------------|--------|------------|------|----------|-----------|-----------|----------|
| L2756078-3     PLOT 70 - 3 JARS<br>Sampled By:    LdB/JK on 25-MAY-24<br>Matrix:        Tissue<br><b>All PCB congeners by GC/HRMS</b> |        |            |      |          |           |           |          |
| PCB 120                                                                                                                               | <0.65  | [U]        | 0.65 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 108/124                                                                                                                           | <0.85  | [U]        | 0.85 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 107                                                                                                                               | 0.96   | J,R        | 0.80 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 123                                                                                                                               | <0.95  | [U]        | 0.95 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 106                                                                                                                               | <0.92  | [U]        | 0.92 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 118                                                                                                                               | 37.7   |            | 0.77 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 122                                                                                                                               | <1.1   | [U]        | 1.1  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 114                                                                                                                               | <0.98  | [U]        | 0.98 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 105                                                                                                                               | 6.20   | J,R        | 0.90 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 127                                                                                                                               | <0.89  | [U]        | 0.89 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 126                                                                                                                               | 2.2    | M,J        | 1.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 155                                                                                                                               | <0.28  | [U]        | 0.28 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 152                                                                                                                               | <0.56  | [U]        | 0.56 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 150                                                                                                                               | <0.43  | [U]        | 0.43 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 136                                                                                                                               | <0.51  | [U]        | 0.51 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 145                                                                                                                               | <0.49  | [U]        | 0.49 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 148                                                                                                                               | <0.67  | [U]        | 0.67 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 151/135                                                                                                                           | 0.93   | J,R        | 0.77 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 154                                                                                                                               | <0.43  | [U]        | 0.43 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 144                                                                                                                               | <0.68  | [U]        | 0.68 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 147/149                                                                                                                           | 2.20   | J,R        | 0.75 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 134/143                                                                                                                           | <0.95  | [U]        | 0.95 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 139/140                                                                                                                           | <0.75  | [U]        | 0.75 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 131                                                                                                                               | <0.97  | [U]        | 0.97 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 142                                                                                                                               | <0.95  | [U]        | 0.95 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 132                                                                                                                               | <0.90  | [U]        | 0.90 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 133                                                                                                                               | <0.85  | [U]        | 0.85 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 165                                                                                                                               | <0.62  | [U]        | 0.62 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 146                                                                                                                               | 2.50   | J,R        | 0.72 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 161                                                                                                                               | <0.54  | [U]        | 0.54 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 168/153                                                                                                                           | 36.0   |            | 0.59 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 141                                                                                                                               | <0.76  | [U]        | 0.76 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 130                                                                                                                               | 0.95   | J,R        | 0.91 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 137/164                                                                                                                           | 0.81   | M,J        | 0.67 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 138/163/129                                                                                                                       | 32.3   |            | 0.75 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 160                                                                                                                               | <0.61  | [U]        | 0.61 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 158                                                                                                                               | 1.50   | J,R        | 0.49 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 128/166                                                                                                                           | 2.91   | M,J        | 0.65 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 159                                                                                                                               | <0.56  | [U]        | 0.56 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 162                                                                                                                               | <0.58  | [U]        | 0.58 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 167                                                                                                                               | 3.30   | J,R        | 0.52 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 156/157                                                                                                                           | 7.79   | [J]        | 0.79 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 169                                                                                                                               | 0.75   | J,R        | 0.60 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 188                                                                                                                               | <0.31  | [U]        | 0.31 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 179                                                                                                                               | <0.37  | [U]        | 0.37 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 184                                                                                                                               | <0.35  | [U]        | 0.35 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 176                                                                                                                               | <0.37  | [U]        | 0.37 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 186                                                                                                                               | <0.40  | [U]        | 0.40 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 178                                                                                                                               | 5.20   | J,R        | 0.54 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 175                                                                                                                               | <0.52  | [U]        | 0.52 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 187                                                                                                                               | 20.6   |            | 0.48 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters                                                                                                             | Result | Qualifier* | D.L.   | Units    | Extracted | Analyzed  | Batch    |
|---------------------------------------------------------------------------------------------------------------------------------------|--------|------------|--------|----------|-----------|-----------|----------|
| L2756078-3     PLOT 70 - 3 JARS<br>Sampled By:    LdB/JK on 25-MAY-24<br>Matrix:        Tissue<br><b>All PCB congeners by GC/HRMS</b> |        |            |        |          |           |           |          |
| PCB 182                                                                                                                               | <0.47  | [U]        | 0.47   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 183                                                                                                                               | 4.20   | J,R        | 0.47   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 185                                                                                                                               | <0.56  | [U]        | 0.56   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 174                                                                                                                               | <0.49  | [U]        | 0.49   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 177                                                                                                                               | 8.90   | J,R        | 0.53   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 181                                                                                                                               | <0.55  | [U]        | 0.55   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 171/173                                                                                                                           | 1.60   | J,R        | 0.54   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 172                                                                                                                               | 4.20   | J,R        | 0.52   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 192                                                                                                                               | <0.45  | [U]        | 0.45   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 180/193                                                                                                                           | 53.2   |            | 0.44   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 191                                                                                                                               | <0.38  | [U]        | 0.38   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 170                                                                                                                               | 9.40   | [J]        | 0.54   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 190                                                                                                                               | 7.46   | [J]        | 0.34   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 189                                                                                                                               | 2.97   | [J]        | 0.39   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 202                                                                                                                               | 4.81   | [J]        | 0.21   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 201                                                                                                                               | <0.23  | [U]        | 0.23   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 204                                                                                                                               | <0.23  | [U]        | 0.23   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 197                                                                                                                               | 0.47   | M,J,R      | 0.25   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 200                                                                                                                               | <0.25  | [U]        | 0.25   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 198/199                                                                                                                           | 27.0   | R          | 0.34   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 196                                                                                                                               | 2.54   | [J]        | 0.34   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 203                                                                                                                               | 12.9   |            | 0.32   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 195                                                                                                                               | 4.95   | [J]        | 0.42   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 194                                                                                                                               | 25.5   |            | 0.39   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 205                                                                                                                               | 2.40   | [J]        | 0.38   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 208                                                                                                                               | 4.82   | [J]        | 0.50   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 207                                                                                                                               | 1.70   | J,R        | 0.49   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 206                                                                                                                               | 19.2   |            | 0.76   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 209                                                                                                                               | 14.9   |            | 0.20   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 1                                                                                                                | 41.0   |            | 5-145  | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 3                                                                                                                | 44.0   |            | 5-145  | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 4                                                                                                                | 56.0   |            | 5-145  | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 15                                                                                                               | 55.0   |            | 5-145  | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 19                                                                                                               | 58.0   |            | 5-145  | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 37                                                                                                               | 70.0   |            | 5-145  | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 54                                                                                                               | 67.0   |            | 5-145  | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 81                                                                                                               | 81.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 77                                                                                                               | 80.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 104                                                                                                              | 72.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 123                                                                                                              | 88.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 118                                                                                                              | 98.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 114                                                                                                              | 85.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 105                                                                                                              | 89.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 126                                                                                                              | 89.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 155                                                                                                              | 93.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 167                                                                                                              | 92.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 156/157                                                                                                          | 88.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 169                                                                                                              | 92.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 188                                                                                                              | 89.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 189                                                                                                              | 90.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 202                                                                                                              | 93.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters           | Result | Qualifier* | D.L.   | Units    | Extracted | Analyzed  | Batch    |
|-------------------------------------|--------|------------|--------|----------|-----------|-----------|----------|
| L2756078-3     PLOT 70 - 3 JARS     |        |            |        |          |           |           |          |
| Sampled By:    LdB/JK on 25-MAY-24  |        |            |        |          |           |           |          |
| Matrix:        Tissue               |        |            |        |          |           |           |          |
| <b>All PCB congeners by GC/HRMS</b> |        |            |        |          |           |           |          |
| Surrogate: 13C12 PCB 205            | 97.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 208            | 84.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 206            | 97.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 209            | 103.0  |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 28             | 59.0   |            | 5-145  | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 111            | 73.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 178            | 74.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total MonoCB                        | 0.55   | [J]        | 0.44   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total DiCB                          | 32.3   | [J]        | 1.8    | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total TriCB                         | 12.9   | [J]        | 0.59   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total TetraCB                       | 24.2   | [J]        | 0.34   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total PentaCB                       | 59.6   | [J]        | 0.59   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total HexaCB                        | 91.9   | [J]        | 0.28   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total HeptaCB                       | 118    | [J]        | 0.31   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total OctaCB                        | 80.6   | [J]        | 0.21   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total NonaCB                        | 25.7   | [J]        | 0.49   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| DecaCB                              | 14.9   | [J]        | 0.20   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total PCB                           | 460    | [J]        | 1.0    | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Lower Bound PCB TEQ (WHO 2005)      | 0.221  |            |        | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Mid Point PCB TEQ (WHO 2005)        | 0.244  |            |        | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Upper Bound PCB TEQ (WHO 2005)      | 0.245  |            |        | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| <b>Dioxins and Furans HR 1613B</b>  |        |            |        |          |           |           |          |
| 2,3,7,8-TCDD                        | 0.240  | J,R        | 0.049  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| 1,2,3,7,8-PeCDD                     | 1.59   | [J]        | 0.056  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| 1,2,3,4,7,8-HxCDD                   | 0.526  | [J]        | 0.053  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| 1,2,3,6,7,8-HxCDD                   | 0.874  | M,J        | 0.051  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| 1,2,3,7,8,9-HxCDD                   | 0.380  | J,R        | 0.051  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| 1,2,3,4,6,7,8-HpCDD                 | 1.41   | [J]        | 0.037  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| OCDD                                | 1.49   | [J]        | 0.080  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| 2,3,7,8-TCDF                        | 0.386  | M,J        | 0.077  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| 1,2,3,7,8-PeCDF                     | 0.41   | J,R        | 0.13   | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| 2,3,4,7,8-PeCDF                     | 0.43   | [J]        | 0.10   | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| 1,2,3,4,7,8-HxCDF                   | 0.220  | J,R        | 0.049  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| 1,2,3,6,7,8-HxCDF                   | 0.300  | J,R        | 0.064  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| 2,3,4,6,7,8-HxCDF                   | 0.120  | M,J,R      | 0.052  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| 1,2,3,7,8,9-HxCDF                   | <0.067 | M,U        | 0.067  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| 1,2,3,4,6,7,8-HpCDF                 | 0.365  | [J]        | 0.052  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| 1,2,3,4,7,8,9-HpCDF                 | <0.071 | M,U        | 0.071  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| OCDF                                | 0.095  | M,J        | 0.067  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Total-TCDD                          | <0.049 | [U]        | 0.049  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Total TCDD # Homologues             | 0      |            |        |          | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Total-PeCDD                         | 1.82   |            | 0.056  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Total PeCDD # Homologues            | 3      |            |        |          | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Total-HxCDD                         | 2.28   |            | 0.053  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Total HxCDD # Homologues            | 3      |            |        |          | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Total-HpCDD                         | 1.41   |            | 0.037  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Total HpCDD # Homologues            | 1      |            |        |          | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Total-TCDF                          | 0.602  |            | 0.077  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Total TCDF # Homologues             | 4      |            |        |          | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Total-PeCDF                         | 1.96   |            | 0.13   | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Total PeCDF # Homologues            | 5      |            |        |          | 06-JUL-24 | 15-JUL-24 | R5984556 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

# ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters               |       | Result | Qualifier* | D.L.   | Units    | Extracted | Analyzed  | Batch    |
|-----------------------------------------|-------|--------|------------|--------|----------|-----------|-----------|----------|
| L2756078-3 PLOT 70 - 3 JARS             |       |        |            |        |          |           |           |          |
| Sampled By: LdB/JK on 25-MAY-24         |       |        |            |        |          |           |           |          |
| Matrix: Tissue                          |       |        |            |        |          |           |           |          |
| Dioxins and Furans HR 1613B             |       |        |            |        |          |           |           |          |
| Total-HxCDF                             | 0.517 |        |            | 0.067  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Total HxCDF # Homologues                | 2     |        |            |        |          | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Total-HpCDF                             | 0.598 |        |            | 0.071  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Total HpCDF # Homologues                | 2     |        |            |        |          | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12-2,3,7,8-TCDD           | 76.0  |        |            | 25-164 | %        | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,7,8-PeCDD        | 78.0  |        |            | 25-181 | %        | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,4,7,8-HxCDD      | 86.0  |        |            | 32-141 | %        | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,6,7,8-HxCDD      | 85.0  |        |            | 28-130 | %        | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,4,6,7,8-HpCDD    | 94.0  |        |            | 23-140 | %        | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12-OCDD                   | 91.0  |        |            | 17-157 | %        | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12-2,3,7,8-TCDF           | 72.0  |        |            | 24-169 | %        | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,7,8-PeCDF        | 72.0  |        |            | 21-192 | %        | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12-2,3,4,7,8-PeCDF        | 82.0  |        |            | 21-178 | %        | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,4,7,8-HxCDF      | 89.0  |        |            | 26-152 | %        | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,6,7,8-HxCDF      | 74.0  |        |            | 26-123 | %        | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12-2,3,4,6,7,8-HxCDF      | 88.0  |        |            | 29-147 | %        | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,7,8,9-HxCDF      | 95.0  |        |            | 28-136 | %        | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,4,6,7,8-HpCDF    | 95.0  |        |            | 28-143 | %        | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,4,7,8,9-HpCDF    | 97.0  |        |            | 26-138 | %        | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 37Cl4-2,3,7,8-TCDD (Cleanup) | 60.0  |        |            | 31-197 | %        | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Lower Bound PCDD/F TEQ (WHO 2005)       | 1.91  |        |            | 0      | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Mid Point PCDD/F TEQ (WHO 2005)         | 2.27  |        |            | 0      | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Upper Bound PCDD/F TEQ (WHO 2005)       | 2.28  |        |            | 0      | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| L2756078-4 PLOT 71 - 5 JARS             |       |        |            |        |          |           |           |          |
| Sampled By: LdB/JK on 25-MAY-24         |       |        |            |        |          |           |           |          |
| Matrix: Tissue                          |       |        |            |        |          |           |           |          |
| Miscellaneous Parameters                |       |        |            |        |          |           |           |          |
| % Moisture                              | 72.6  |        |            | 0.10   | %        | 06-JUL-24 | 08-JUL-24 | R5984098 |
| All PCB congeners by GC/HRMS            |       |        |            |        |          |           |           |          |
| PCB 1                                   | <0.40 | [U]    |            | 0.40   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 2                                   | <0.44 | [U]    |            | 0.44   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 3                                   | 0.63  | M,J,R  |            | 0.49   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 4                                   | <3.7  | [U]    |            | 3.7    | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 10                                  | <2.2  | [U]    |            | 2.2    | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 9                                   | <2.3  | [U]    |            | 2.3    | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 7                                   | <2.4  | [U]    |            | 2.4    | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 6                                   | <2.3  | [U]    |            | 2.3    | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 5                                   | <2.7  | [U]    |            | 2.7    | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 8                                   | <2.0  | [U]    |            | 2.0    | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 14                                  | <2.6  | [U]    |            | 2.6    | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 11                                  | 39.1  |        |            | 2.7    | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 13/12                               | <2.6  | [U]    |            | 2.6    | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 15                                  | <2.9  | [U]    |            | 2.9    | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 19                                  | <0.96 | [U]    |            | 0.96   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 30/18                               | 1.28  | M,J    |            | 0.90   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 17                                  | <1.0  | M,U    |            | 1.0    | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 27                                  | <0.79 | [U]    |            | 0.79   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 24                                  | <0.88 | [U]    |            | 0.88   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 16                                  | <1.2  | M,U    |            | 1.2    | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 32                                  | <0.71 | [U]    |            | 0.71   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 34                                  | <1.0  | [U]    |            | 1.0    | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.



ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters                                                                      | Result | Qualifier* | D.L. | Units    | Extracted | Analyzed  | Batch    |
|------------------------------------------------------------------------------------------------|--------|------------|------|----------|-----------|-----------|----------|
| L2756078-4     PLOT 71 - 5 JARS<br>Sampled By:    LdB/JK on 25-MAY-24<br>Matrix:        Tissue |        |            |      |          |           |           |          |
| <b>All PCB congeners by GC/HRMS</b>                                                            |        |            |      |          |           |           |          |
| PCB 23                                                                                         | <0.98  | [U]        | 0.98 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 29/26                                                                                      | <0.94  | [U]        | 0.94 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 25                                                                                         | <0.92  | [U]        | 0.92 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 31                                                                                         | 1.90   | J,R        | 0.90 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 28/20                                                                                      | 4.20   | J,R        | 0.97 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 21/33                                                                                      | 1.10   | M,J,R      | 0.95 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 22                                                                                         | <1.1   | M,U        | 1.1  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 36                                                                                         | <0.90  | [U]        | 0.90 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 39                                                                                         | <1.1   | [U]        | 1.1  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 38                                                                                         | <1.0   | [U]        | 1.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 35                                                                                         | <1.1   | [U]        | 1.1  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 37                                                                                         | <1.1   | [U]        | 1.1  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 54                                                                                         | <0.45  | [U]        | 0.45 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 50/53                                                                                      | <1.0   | [U]        | 1.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 45/51                                                                                      | <1.1   | [U]        | 1.1  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 46                                                                                         | <1.2   | [U]        | 1.2  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 52                                                                                         | 3.8    | J,R        | 1.2  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 73                                                                                         | <0.73  | [U]        | 0.73 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 43                                                                                         | <1.1   | [U]        | 1.1  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 69/49                                                                                      | 0.90   | M,J,R      | 0.89 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 48                                                                                         | <1.0   | [U]        | 1.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 44/47/65                                                                                   | 2.90   | J,R        | 0.91 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 59/62/75                                                                                   | <0.75  | [U]        | 0.75 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 42                                                                                         | <1.2   | [U]        | 1.2  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 41/71/40                                                                                   | <1.1   | [U]        | 1.1  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 64                                                                                         | <0.78  | M,U        | 0.78 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 72                                                                                         | <0.40  | [U]        | 0.40 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 68                                                                                         | <0.39  | [U]        | 0.39 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 57                                                                                         | <0.42  | [U]        | 0.42 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 58                                                                                         | <0.40  | [U]        | 0.40 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 67                                                                                         | <0.36  | [U]        | 0.36 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 63                                                                                         | <0.39  | [U]        | 0.39 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 61/70/74/76                                                                                | 5.41   | [J]        | 0.39 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 66                                                                                         | 1.10   | J,R        | 0.39 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 55                                                                                         | <0.43  | [U]        | 0.43 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 56                                                                                         | <0.39  | [U]        | 0.39 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 60                                                                                         | 1.40   | M,J        | 0.42 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 80                                                                                         | <0.34  | [U]        | 0.34 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 79                                                                                         | <0.36  | [U]        | 0.36 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 78                                                                                         | <0.45  | [U]        | 0.45 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 81                                                                                         | <0.46  | [U]        | 0.46 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 77                                                                                         | 0.79   | M,J,R      | 0.50 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 104                                                                                        | <0.60  | [U]        | 0.60 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 96                                                                                         | <0.89  | [U]        | 0.89 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 103                                                                                        | <0.89  | [U]        | 0.89 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 94                                                                                         | <0.97  | [U]        | 0.97 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 95                                                                                         | <1.1   | [U]        | 1.1  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 100/93/102/98                                                                              | <0.84  | [U]        | 0.84 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 88/91                                                                                      | <0.91  | [U]        | 0.91 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 84                                                                                         | <0.95  | [U]        | 0.95 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 89                                                                                         | <1.1   | [U]        | 1.1  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters       | Result | Qualifier* | D.L. | Units    | Extracted | Analyzed  | Batch    |
|---------------------------------|--------|------------|------|----------|-----------|-----------|----------|
| L2756078-4 PLOT 71 - 5 JARS     |        |            |      |          |           |           |          |
| Sampled By: LdB/JK on 25-MAY-24 |        |            |      |          |           |           |          |
| Matrix: Tissue                  |        |            |      |          |           |           |          |
| All PCB congeners by GC/HRMS    |        |            |      |          |           |           |          |
| PCB 121                         | <0.64  | [U]        | 0.64 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 92                          | <1.0   | [U]        | 1.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 113/90/101                  | 1.10   | M,J,R      | 0.74 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 83/99                       | 2.98   | [J]        | 0.97 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 112                         | <0.61  | [U]        | 0.61 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 109/119/86/97/125/87        | <0.71  | [U]        | 0.71 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 117/116/85/110/115          | 2.05   | M,J        | 0.69 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 82                          | <1.2   | [U]        | 1.2  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 111                         | <0.63  | [U]        | 0.63 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 120                         | <0.61  | [U]        | 0.61 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 108/124                     | <0.75  | [U]        | 0.75 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 107                         | <0.71  | [U]        | 0.71 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 123                         | <0.91  | [U]        | 0.91 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 106                         | <0.81  | [U]        | 0.81 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 118                         | 20.0   | R          | 0.66 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 122                         | <0.99  | [U]        | 0.99 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 114                         | <0.88  | [U]        | 0.88 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 105                         | 3.94   | [J]        | 0.84 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 127                         | <0.79  | [U]        | 0.79 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 126                         | 1.40   | M,J,R      | 0.95 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 155                         | <0.41  | [U]        | 0.41 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 152                         | <0.79  | [U]        | 0.79 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 150                         | <0.61  | [U]        | 0.61 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 136                         | <0.72  | [U]        | 0.72 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 145                         | <0.70  | [U]        | 0.70 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 148                         | <0.95  | [U]        | 0.95 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 151/135                     | <1.1   | [U]        | 1.1  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 154                         | <0.61  | [U]        | 0.61 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 144                         | <0.97  | [U]        | 0.97 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 147/149                     | 1.5    | J,R        | 1.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 134/143                     | <1.3   | [U]        | 1.3  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 139/140                     | <1.0   | [U]        | 1.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 131                         | <1.3   | [U]        | 1.3  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 142                         | <1.3   | [U]        | 1.3  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 132                         | <1.2   | [U]        | 1.2  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 133                         | <1.1   | [U]        | 1.1  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 165                         | <0.83  | [U]        | 0.83 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 146                         | 1.50   | J,R        | 0.97 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 161                         | <0.72  | [U]        | 0.72 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 168/153                     | 19.6   |            | 0.79 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 141                         | <1.0   | [U]        | 1.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 130                         | <1.2   | [U]        | 1.2  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 137/164                     | <0.91  | [U]        | 0.91 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 138/163/129                 | 17.2   |            | 1.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 160                         | <0.81  | [U]        | 0.81 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 158                         | <0.65  | [U]        | 0.65 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 128/166                     | 1.20   | M,J,R      | 0.87 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 159                         | <0.75  | [U]        | 0.75 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 162                         | <0.79  | [U]        | 0.79 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 167                         | 2.30   | J,R        | 0.67 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 156/157                     | 3.3    | J,R        | 1.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters                                                                      | Result | Qualifier* | D.L.   | Units    | Extracted | Analyzed  | Batch    |
|------------------------------------------------------------------------------------------------|--------|------------|--------|----------|-----------|-----------|----------|
| L2756078-4     PLOT 71 - 5 JARS<br>Sampled By:    LdB/JK on 25-MAY-24<br>Matrix:        Tissue |        |            |        |          |           |           |          |
| <b>All PCB congeners by GC/HRMS</b>                                                            |        |            |        |          |           |           |          |
| PCB 169                                                                                        | <0.84  | [U]        | 0.84   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 188                                                                                        | <0.55  | [U]        | 0.55   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 179                                                                                        | <0.66  | [U]        | 0.66   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 184                                                                                        | <0.62  | [U]        | 0.62   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 176                                                                                        | <0.66  | [U]        | 0.66   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 186                                                                                        | <0.72  | [U]        | 0.72   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 178                                                                                        | 3.00   | [J]        | 0.97   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 175                                                                                        | <0.92  | [U]        | 0.92   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 187                                                                                        | 13.2   |            | 0.86   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 182                                                                                        | <0.84  | [U]        | 0.84   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 183                                                                                        | 2.70   | J,R        | 0.85   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 185                                                                                        | <1.0   | [U]        | 1.0    | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 174                                                                                        | <0.88  | [U]        | 0.88   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 177                                                                                        | 4.00   | J,R        | 0.95   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 181                                                                                        | <0.99  | [U]        | 0.99   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 171/173                                                                                    | <0.96  | [U]        | 0.96   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 172                                                                                        | 2.20   | J,R        | 0.94   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 192                                                                                        | <0.80  | [U]        | 0.80   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 180/193                                                                                    | 25.0   | R          | 0.79   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 191                                                                                        | <0.68  | [U]        | 0.68   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 170                                                                                        | 4.92   | [J]        | 0.97   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 190                                                                                        | 4.60   | J,R        | 0.60   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 189                                                                                        | 1.80   | M,J,R      | 0.50   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 202                                                                                        | 1.63   | [J]        | 0.31   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 201                                                                                        | <0.35  | [U]        | 0.35   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 204                                                                                        | <0.35  | [U]        | 0.35   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 197                                                                                        | <0.39  | [U]        | 0.39   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 200                                                                                        | <0.38  | [U]        | 0.38   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 198/199                                                                                    | 16.1   |            | 0.51   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 196                                                                                        | 0.78   | J,R        | 0.51   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 203                                                                                        | 9.40   | J,R        | 0.49   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 195                                                                                        | 1.60   | M,J,R      | 0.78   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 194                                                                                        | 15.3   |            | 0.74   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 205                                                                                        | 1.50   | J,R        | 0.74   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 208                                                                                        | 2.70   | M,J,R      | 0.79   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 207                                                                                        | 0.91   | M,J,R      | 0.67   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 206                                                                                        | 13.6   |            | 0.90   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 209                                                                                        | 10.8   |            | 0.51   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 1                                                                         | 44.0   |            | 5-145  | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 3                                                                         | 47.0   |            | 5-145  | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 4                                                                         | 55.0   |            | 5-145  | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 15                                                                        | 54.0   |            | 5-145  | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 19                                                                        | 58.0   |            | 5-145  | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 37                                                                        | 60.0   |            | 5-145  | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 54                                                                        | 55.0   |            | 5-145  | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 81                                                                        | 74.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 77                                                                        | 73.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 104                                                                       | 73.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 123                                                                       | 77.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 118                                                                       | 94.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 114                                                                       | 75.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters           | Result   | Qualifier* | D.L.   | Units    | Extracted | Analyzed  | Batch    |
|-------------------------------------|----------|------------|--------|----------|-----------|-----------|----------|
| L2756078-4     PLOT 71 - 5 JARS     |          |            |        |          |           |           |          |
| Sampled By:     LdB/JK on 25-MAY-24 |          |            |        |          |           |           |          |
| Matrix:             Tissue          |          |            |        |          |           |           |          |
| <b>All PCB congeners by GC/HRMS</b> |          |            |        |          |           |           |          |
| Surrogate: 13C12 PCB 105            | 81.0     |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 126            | 79.0     |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 155            | 78.0     |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 167            | 80.0     |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 156/157        | 76.0     |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 169            | 76.0     |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 188            | 75.0     |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 189            | 74.0     |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 202            | 79.0     |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 205            | 78.0     |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 208            | 52.0     |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 206            | 81.0     |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 209            | 90.0     |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 28             | 47.0     |            | 5-145  | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 111            | 65.0     |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 178            | 61.0     |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total MonoCB                        | 0.63     | [J]        | 0.40   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total DiCB                          | 39.1     | [J]        | 2.0    | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total TriCB                         | 8.48     | [J]        | 0.71   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total TetraCB                       | 16.3     | [J]        | 0.34   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total PentaCB                       | 31.5     | [J]        | 0.60   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total HexaCB                        | 46.6     | [J]        | 0.41   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total HeptaCB                       | 61.4     | [J]        | 0.50   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total OctaCB                        | 46.3     | [J]        | 0.31   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total NonaCB                        | 17.2     | [J]        | 0.67   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| DecaCB                              | 10.8     | [J]        | 0.51   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total PCB                           | 278      | [J]        | 1.0    | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Lower Bound PCB TEQ (WHO 2005)      | 0.000118 |            |        | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Mid Point PCB TEQ (WHO 2005)        | 0.154    |            |        | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Upper Bound PCB TEQ (WHO 2005)      | 0.166    |            |        | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| <b>Dioxins and Furans HR 1613B</b>  |          |            |        |          |           |           |          |
| 2,3,7,8-TCDD                        | 0.066    | M,J        | 0.038  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| 1,2,3,7,8-PeCDD                     | 0.460    | [J]        | 0.078  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| 1,2,3,4,7,8-HxCDD                   | 0.16     | J,R        | 0.12   | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| 1,2,3,6,7,8-HxCDD                   | 0.28     | J,R        | 0.11   | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| 1,2,3,7,8,9-HxCDD                   | 0.19     | J,R        | 0.11   | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| 1,2,3,4,6,7,8-HpCDD                 | 0.721    | [J]        | 0.052  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| OCDD                                | 0.660    | M,J,R      | 0.090  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| 2,3,7,8-TCDF                        | 0.094    | M,J,R      | 0.066  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| 1,2,3,7,8-PeCDF                     | 0.212    | M,J,B      | 0.070  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| 2,3,4,7,8-PeCDF                     | 0.150    | M,J,R      | 0.057  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| 1,2,3,4,7,8-HxCDF                   | 0.092    | J,R        | 0.035  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| 1,2,3,6,7,8-HxCDF                   | 0.130    | [J]        | 0.038  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| 2,3,4,6,7,8-HxCDF                   | 0.089    | M,J,R      | 0.037  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| 1,2,3,7,8,9-HxCDF                   | 0.076    | M,J        | 0.044  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| 1,2,3,4,6,7,8-HpCDF                 | 0.160    | J,R        | 0.090  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| 1,2,3,4,7,8,9-HpCDF                 | <0.13    | [U]        | 0.13   | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| OCDF                                | <0.083   | M,U        | 0.083  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Total-TCDD                          | 0.143    |            | 0.038  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Total TCDD # Homologues             | 2        |            |        |          | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Total-PeCDD                         | 0.460    |            | 0.078  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.



ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters       | Result | Qualifier* | D.L. | Units    | Extracted | Analyzed  | Batch    |
|---------------------------------|--------|------------|------|----------|-----------|-----------|----------|
| L2756078-5 PLOT 109 - 5 JARS    |        |            |      |          |           |           |          |
| Sampled By: LdB/JK on 25-MAY-24 |        |            |      |          |           |           |          |
| Matrix: Tissue                  |        |            |      |          |           |           |          |
| All PCB congeners by GC/HRMS    |        |            |      |          |           |           |          |
| PCB 15                          | <7.6   | [U]        | 7.6  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 19                          | <2.1   | [U]        | 2.1  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 30/18                       | 3.2    | M,J        | 1.2  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 17                          | <1.5   | [U]        | 1.5  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 27                          | <1.1   | [U]        | 1.1  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 24                          | <1.2   | [U]        | 1.2  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 16                          | <1.7   | [U]        | 1.7  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 32                          | <0.98  | [U]        | 0.98 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 34                          | <1.7   | [U]        | 1.7  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 23                          | <1.7   | [U]        | 1.7  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 29/26                       | <1.5   | [U]        | 1.5  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 25                          | <1.5   | [U]        | 1.5  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 31                          | 4.9    | J,R        | 1.4  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 28/20                       | 64.4   |            | 1.6  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 21/33                       | 2.9    | M,J,R      | 1.5  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 22                          | <1.7   | M,U        | 1.7  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 36                          | <1.5   | [U]        | 1.5  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 39                          | <1.8   | [U]        | 1.8  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 38                          | <1.7   | [U]        | 1.7  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 35                          | <1.7   | [U]        | 1.7  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 37                          | 15.7   | M          | 1.6  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 54                          | <0.91  | [U]        | 0.91 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 50/53                       | <1.6   | [U]        | 1.6  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 45/51                       | <1.7   | [U]        | 1.7  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 46                          | <1.8   | [U]        | 1.8  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 52                          | 14.4   |            | 1.6  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 73                          | <1.1   | [U]        | 1.1  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 43                          | <1.9   | [U]        | 1.9  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 69/49                       | 5.6    | [J]        | 1.3  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 48                          | <1.6   | [U]        | 1.6  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 44/47/65                    | 17.0   | R          | 1.4  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 59/62/75                    | 3.7    | M,J,R      | 1.2  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 42                          | <1.8   | [U]        | 1.8  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 41/71/40                    | <1.6   | [U]        | 1.6  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 64                          | 4.2    | J,R        | 1.2  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 72                          | <1.8   | [U]        | 1.8  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 68                          | <1.8   | [U]        | 1.8  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 57                          | <1.9   | [U]        | 1.9  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 58                          | <1.8   | [U]        | 1.8  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 67                          | <1.6   | [U]        | 1.6  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 63                          | 5.8    | [J]        | 1.8  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 61/70/74/76                 | 393    |            | 1.8  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 66                          | 88.7   |            | 1.8  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 55                          | <2.0   | [U]        | 2.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 56                          | 8.9    | [J]        | 1.7  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 60                          | 61.1   |            | 1.9  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 80                          | <1.5   | [U]        | 1.5  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 79                          | 2.1    | J,R        | 1.6  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 78                          | <2.0   | [U]        | 2.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 81                          | 10.7   |            | 1.8  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 77                          | 103    |            | 2.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters       | Result | Qualifier* | D.L. | Units     | Extracted | Analyzed  | Batch    |
|---------------------------------|--------|------------|------|-----------|-----------|-----------|----------|
| L2756078-5 PLOT 109 - 5 JARS    |        |            |      |           |           |           |          |
| Sampled By: LdB/JK on 25-MAY-24 |        |            |      |           |           |           |          |
| Matrix: Tissue                  |        |            |      |           |           |           |          |
| All PCB congeners by GC/HRMS    |        |            |      |           |           |           |          |
| PCB 104                         | <0.82  | [U]        | 0.82 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 96                          | <1.1   | [U]        | 1.1  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 103                         | <1.6   | [U]        | 1.6  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 94                          | <1.7   | [U]        | 1.7  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 95                          | 21.7   |            | 2.0  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 100/93/102/98               | <1.5   | [U]        | 1.5  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 88/91                       | 3.5    | M,J,R      | 1.6  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 84                          | 4.6    | J,R        | 1.7  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 89                          | <2.0   | [U]        | 2.0  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 121                         | <1.1   | [U]        | 1.1  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 92                          | 16.4   |            | 1.8  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 113/90/101                  | 89.8   |            | 1.3  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 83/99                       | 307    |            | 1.7  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 112                         | <1.1   | [U]        | 1.1  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 109/119/86/97/125/87        | 43.8   | M          | 1.3  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 117/116/85/110/115          | 222    | M          | 1.2  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 82                          | 5.6    | J,R        | 2.1  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 111                         | <1.1   | [U]        | 1.1  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 120                         | 6.5    | J,R        | 1.1  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 108/124                     | 10.9   |            | 2.7  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 107                         | 121    | M          | 2.7  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 123                         | 11.9   | M          | 3.1  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 106                         | <3.0   | [U]        | 3.0  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 118                         | 6930   |            | 2.2  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 122                         | <3.5   | [U]        | 3.5  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 114                         | 83.8   |            | 3.2  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 105                         | 1030   |            | 2.9  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 127                         | 3.3    | J,R        | 2.6  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 126                         | 330    |            | 0.24 | pg/g wwft | 06-JUL-24 | 10-AUG-24 | R5984556 |
| PCB 155                         | 0.39   | [J]        | 0.38 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 152                         | <0.72  | [U]        | 0.72 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 150                         | <0.54  | [U]        | 0.54 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 136                         | 4.98   | [J]        | 0.64 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 145                         | <0.62  | [U]        | 0.62 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 148                         | <0.83  | [U]        | 0.83 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 151/135                     | 59.9   |            | 0.84 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 154                         | <0.65  | [U]        | 0.65 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 144                         | 7.61   | [J]        | 0.85 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 147/149                     | <3.0   | M,U        | 3.0  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 134/143                     | 4.7    | J,R        | 3.7  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 139/140                     | 14.1   |            | 2.8  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 131                         | <3.7   | [U]        | 3.7  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 142                         | <3.7   | [U]        | 3.7  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 132                         | 48.1   |            | 3.5  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 133                         | 30.0   |            | 3.3  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 165                         | 5.3    | [J]        | 2.5  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 146                         | 299    |            | 2.7  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 161                         | <2.0   | [U]        | 2.0  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 168/153                     | 6250   |            | 2.2  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 141                         | 110    |            | 2.8  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 130                         | 207    |            | 3.5  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters                                                         | Result | Qualifier* | D.L.  | Units    | Extracted | Analyzed  | Batch    |
|-----------------------------------------------------------------------------------|--------|------------|-------|----------|-----------|-----------|----------|
| L2756078-5 PLOT 109 - 5 JARS<br>Sampled By: LdB/JK on 25-MAY-24<br>Matrix: Tissue |        |            |       |          |           |           |          |
| All PCB congeners by GC/HRMS                                                      |        |            |       |          |           |           |          |
| PCB 137/164                                                                       | 67.4   | M          | 2.5   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 138/163/129                                                                   | 4710   |            | 2.7   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 160                                                                           | <2.3   | [U]        | 2.3   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 158                                                                           | 289    |            | 1.8   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 128/166                                                                       | 424    | M          | 2.4   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 159                                                                           | 7.5    | [J]        | 2.0   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 162                                                                           | 41.4   |            | 2.1   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 167                                                                           | 866    |            | 1.8   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 156/157                                                                       | 1780   |            | 2.8   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 169                                                                           | 18.0   |            | 0.18  | pg/g wwt | 06-JUL-24 | 10-AUG-24 | R5984556 |
| PCB 188                                                                           | <1.1   | [U]        | 1.1   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 179                                                                           | 9.7    |            | 1.3   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 184                                                                           | <1.2   | [U]        | 1.2   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 176                                                                           | 3.4    | J,R        | 1.2   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 186                                                                           | <1.3   | [U]        | 1.3   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 178                                                                           | 612    |            | 1.8   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 175                                                                           | 14.0   | R          | 1.7   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 187                                                                           | 3760   |            | 1.6   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 182                                                                           | <1.5   | [U]        | 1.5   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 183                                                                           | 675    |            | 1.6   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 185                                                                           | 14.6   |            | 1.8   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 174                                                                           | 69.6   |            | 1.6   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 177                                                                           | 1680   |            | 1.7   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 181                                                                           | 14.0   | R          | 1.7   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 171/173                                                                       | 262    |            | 1.7   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 172                                                                           | 702    |            | 1.6   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 192                                                                           | 1.9    | J,R        | 1.4   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 180/193                                                                       | 13100  |            | 1.3   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 191                                                                           | 17.0   | R          | 1.1   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 170                                                                           | 1980   |            | 1.6   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 190                                                                           | 1530   |            | 1.0   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 189                                                                           | 420    |            | 1.6   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 202                                                                           | 260    |            | 0.86  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 201                                                                           | 33.7   |            | 0.94  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 204                                                                           | <0.91  | [U]        | 0.91  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 197                                                                           | 26.3   |            | 1.0   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 200                                                                           | 2.99   | [J]        | 0.99  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 198/199                                                                       | 4830   |            | 1.3   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 196                                                                           | 320    |            | 1.2   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 203                                                                           | 2450   |            | 1.2   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 195                                                                           | 1240   |            | 2.4   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 194                                                                           | 5870   |            | 2.2   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 205                                                                           | 316    |            | 2.0   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 208                                                                           | 104    |            | 0.65  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 207                                                                           | 36.0   |            | 0.72  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 206                                                                           | 1150   |            | 1.1   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 209                                                                           | 77.4   |            | 0.46  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 1                                                            | 19.0   |            | 5-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 3                                                            | 23.0   |            | 5-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 4                                                            | 27.0   |            | 5-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 15                                                           | 35.0   |            | 5-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.



ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters                                                                       | Result | Qualifier* | D.L.   | Units    | Extracted | Analyzed  | Batch    |
|-------------------------------------------------------------------------------------------------|--------|------------|--------|----------|-----------|-----------|----------|
| L2756078-5     PLOT 109 - 5 JARS<br>Sampled By:    LdB/JK on 25-MAY-24<br>Matrix:        Tissue |        |            |        |          |           |           |          |
| <b>All PCB congeners by GC/HRMS</b>                                                             |        |            |        |          |           |           |          |
| Surrogate: 13C12 PCB 19                                                                         | 31.0   |            | 5-145  | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 37                                                                         | 41.0   |            | 5-145  | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 54                                                                         | 35.0   |            | 5-145  | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 81                                                                         | 54.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 77                                                                         | 53.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 104                                                                        | 54.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 123                                                                        | 61.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 118                                                                        | 73.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 114                                                                        | 57.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 105                                                                        | 63.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 126                                                                        | 71.0   |            | 10-145 | %        | 06-JUL-24 | 10-AUG-24 | R5984556 |
| Surrogate: 13C12 PCB 155                                                                        | 59.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 167                                                                        | 61.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 156/157                                                                    | 59.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 169                                                                        | 93.0   |            | 10-145 | %        | 06-JUL-24 | 10-AUG-24 | R5984556 |
| Surrogate: 13C12 PCB 188                                                                        | 56.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 189                                                                        | 60.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 202                                                                        | 60.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 205                                                                        | 62.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 208                                                                        | 62.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 206                                                                        | 63.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 209                                                                        | 68.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 28                                                                         | 43.0   |            | 5-145  | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 111                                                                        | 62.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 178                                                                        | 65.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total MonoCB                                                                                    | 2.30   | [J]        | 0.81   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total DiCB                                                                                      | 36.3   | [J]        | 3.4    | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total TriCB                                                                                     | 91.1   | [J]        | 0.98   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total TetraCB                                                                                   | 718    | [J]        | 0.91   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total PentaCB                                                                                   | 9240   | [J]        | 0.24   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total HexaCB                                                                                    | 15200  | [J]        | 0.18   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total HeptaCB                                                                                   | 24900  | [J]        | 1.0    | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total OctaCB                                                                                    | 15300  | [J]        | 0.86   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total NonaCB                                                                                    | 1290   | [J]        | 0.65   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| DecaCB                                                                                          | 77.4   | [J]        | 0.46   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total PCB                                                                                       | 66900  | [J]        | 1.0    | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Lower Bound PCB TEQ (WHO 2005)                                                                  | 33.9   |            |        | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Mid Point PCB TEQ (WHO 2005)                                                                    | 33.9   |            |        | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Upper Bound PCB TEQ (WHO 2005)                                                                  | 33.9   |            |        | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| <b>Dioxins and Furans HR 1613B</b>                                                              |        |            |        |          |           |           |          |
| 2,3,7,8-TCDD                                                                                    | 0.123  | [J]        | 0.077  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 1,2,3,7,8-PeCDD                                                                                 | 1.02   | [J]        | 0.088  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 1,2,3,4,7,8-HxCDD                                                                               | 0.504  | [J]        | 0.044  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 1,2,3,6,7,8-HxCDD                                                                               | 0.880  | J,R        | 0.044  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 1,2,3,7,8,9-HxCDD                                                                               | 0.480  | M,J,R      | 0.043  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 1,2,3,4,6,7,8-HpCDD                                                                             | 1.89   | [J]        | 0.075  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| OCDD                                                                                            | 1.73   | [J]        | 0.21   | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 2,3,7,8-TCDF                                                                                    | 6.07   |            | 0.12   | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 1,2,3,7,8-PeCDF                                                                                 | 3.83   | [J]        | 0.098  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 2,3,4,7,8-PeCDF                                                                                 | 6.85   | [J]        | 0.078  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 1,2,3,4,7,8-HxCDF                                                                               | 1.45   | [J]        | 0.052  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

**Version: FINAL**

| Sample Details/Parameters               |                     | Result | Qualifier* | D.L.     | Units     | Extracted | Analyzed | Batch |
|-----------------------------------------|---------------------|--------|------------|----------|-----------|-----------|----------|-------|
| L2756078-5                              | PLOT 109 - 5 JARS   |        |            |          |           |           |          |       |
| Sampled By:                             | LdB/JK on 25-MAY-24 |        |            |          |           |           |          |       |
| Matrix:                                 | Tissue              |        |            |          |           |           |          |       |
| Dioxins and Furans HR 1613B             |                     |        |            |          |           |           |          |       |
| 1,2,3,6,7,8-HxCDF                       | 1.49                | [J]    | 0.062      | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |       |
| 2,3,4,6,7,8-HxCDF                       | 2.68                | [J]    | 0.054      | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |       |
| 1,2,3,7,8,9-HxCDF                       | 0.075               | M,J,R  | 0.068      | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |       |
| 1,2,3,4,6,7,8-HpCDF                     | 1.92                | [J]    | 0.040      | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |       |
| 1,2,3,4,7,8,9-HpCDF                     | 0.160               | J,R    | 0.055      | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |       |
| OCDF                                    | 0.39                | M,J,R  | 0.11       | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |       |
| Total-TCDD                              | 0.123               |        | 0.077      | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |       |
| Total TCDD # Homologues                 | 1                   |        |            |          | 06-JUL-24 | 16-JUL-24 | R5984556 |       |
| Total-PeCDD                             | 1.31                |        | 0.088      | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |       |
| Total PeCDD # Homologues                | 2                   |        |            |          | 06-JUL-24 | 16-JUL-24 | R5984556 |       |
| Total-HxCDD                             | 1.38                |        | 0.044      | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |       |
| Total HxCDD # Homologues                | 3                   |        |            |          | 06-JUL-24 | 16-JUL-24 | R5984556 |       |
| Total-HpCDD                             | 2.68                |        | 0.075      | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |       |
| Total HpCDD # Homologues                | 2                   |        |            |          | 06-JUL-24 | 16-JUL-24 | R5984556 |       |
| Total-TCDF                              | 7.64                |        | 0.12       | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |       |
| Total TCDF # Homologues                 | 7                   |        |            |          | 06-JUL-24 | 16-JUL-24 | R5984556 |       |
| Total-PeCDF                             | 10.7                |        | 0.098      | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |       |
| Total PeCDF # Homologues                | 2                   |        |            |          | 06-JUL-24 | 16-JUL-24 | R5984556 |       |
| Total-HxCDF                             | 8.86                |        | 0.068      | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |       |
| Total HxCDF # Homologues                | 9                   |        |            |          | 06-JUL-24 | 16-JUL-24 | R5984556 |       |
| Total-HpCDF                             | 2.45                |        | 0.055      | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |       |
| Total HpCDF # Homologues                | 2                   |        |            |          | 06-JUL-24 | 16-JUL-24 | R5984556 |       |
| Surrogate: 13C12-2,3,7,8-TCDD           | 62.0                |        | 25-164     | %        | 06-JUL-24 | 16-JUL-24 | R5984556 |       |
| Surrogate: 13C12-1,2,3,7,8-PeCDD        | 65.0                |        | 25-181     | %        | 06-JUL-24 | 16-JUL-24 | R5984556 |       |
| Surrogate: 13C12-1,2,3,4,7,8-HxCDD      | 71.0                |        | 32-141     | %        | 06-JUL-24 | 16-JUL-24 | R5984556 |       |
| Surrogate: 13C12-1,2,3,6,7,8-HxCDD      | 70.0                |        | 28-130     | %        | 06-JUL-24 | 16-JUL-24 | R5984556 |       |
| Surrogate: 13C12-1,2,3,4,6,7,8-HpCDD    | 76.0                |        | 23-140     | %        | 06-JUL-24 | 16-JUL-24 | R5984556 |       |
| Surrogate: 13C12-OCDD                   | 72.0                |        | 17-157     | %        | 06-JUL-24 | 16-JUL-24 | R5984556 |       |
| Surrogate: 13C12-2,3,7,8-TCDF           | 60.0                |        | 24-169     | %        | 06-JUL-24 | 16-JUL-24 | R5984556 |       |
| Surrogate: 13C12-1,2,3,7,8-PeCDF        | 59.0                |        | 21-192     | %        | 06-JUL-24 | 16-JUL-24 | R5984556 |       |
| Surrogate: 13C12-2,3,4,7,8-PeCDF        | 67.0                |        | 21-178     | %        | 06-JUL-24 | 16-JUL-24 | R5984556 |       |
| Surrogate: 13C12-1,2,3,4,7,8-HxCDF      | 70.0                |        | 26-152     | %        | 06-JUL-24 | 16-JUL-24 | R5984556 |       |
| Surrogate: 13C12-1,2,3,6,7,8-HxCDF      | 64.0                |        | 26-123     | %        | 06-JUL-24 | 16-JUL-24 | R5984556 |       |
| Surrogate: 13C12-2,3,4,6,7,8-HxCDF      | 70.0                |        | 29-147     | %        | 06-JUL-24 | 16-JUL-24 | R5984556 |       |
| Surrogate: 13C12-1,2,3,7,8,9-HxCDF      | 76.0                |        | 28-136     | %        | 06-JUL-24 | 16-JUL-24 | R5984556 |       |
| Surrogate: 13C12-1,2,3,4,6,7,8-HpCDF    | 76.0                |        | 28-143     | %        | 06-JUL-24 | 16-JUL-24 | R5984556 |       |
| Surrogate: 13C12-1,2,3,4,7,8,9-HpCDF    | 75.0                |        | 26-138     | %        | 06-JUL-24 | 16-JUL-24 | R5984556 |       |
| Surrogate: 37Cl4-2,3,7,8-TCDD (Cleanup) | 64.0                |        | 31-197     | %        | 06-JUL-24 | 16-JUL-24 | R5984556 |       |
| Lower Bound PCDD/F TEQ (WHO 2005)       | 4.57                |        | 0          | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |       |
| Mid Point PCDD/F TEQ (WHO 2005)         | 4.72                |        | 0          | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |       |
| Upper Bound PCDD/F TEQ (WHO 2005)       | 4.72                |        | 0          | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |       |
| L2756078-6                              | PLOT 110 - 4 JARS   |        |            |          |           |           |          |       |
| Sampled By:                             | LdB/JK on 25-MAY-24 |        |            |          |           |           |          |       |
| Matrix:                                 | Tissue              |        |            |          |           |           |          |       |
| Miscellaneous Parameters                |                     |        |            |          |           |           |          |       |
| % Moisture                              | 71.5                |        | 0.10       | %        | 06-JUL-24 | 08-JUL-24 | R5984098 |       |
| All PCB congeners by GC/HRMS            |                     |        |            |          |           |           |          |       |
| PCB 1                                   | <0.57               | [U]    | 0.57       | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |       |
| PCB 2                                   | <0.61               | [U]    | 0.61       | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |       |
| PCB 3                                   | <0.69               | [U]    | 0.69       | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |       |
| PCB 4                                   | <3.2                | [U]    | 3.2        | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |       |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters                                                                                                              | Result | Qualifier* | D.L. | Units    | Extracted | Analyzed  | Batch    |
|----------------------------------------------------------------------------------------------------------------------------------------|--------|------------|------|----------|-----------|-----------|----------|
| L2756078-6     PLOT 110 - 4 JARS<br>Sampled By:    LdB/JK on 25-MAY-24<br>Matrix:        Tissue<br><b>All PCB congeners by GC/HRMS</b> |        |            |      |          |           |           |          |
| PCB 10                                                                                                                                 | <1.8   | [U]        | 1.8  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 9                                                                                                                                  | <1.9   | [U]        | 1.9  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 7                                                                                                                                  | <1.8   | [U]        | 1.8  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 6                                                                                                                                  | <1.8   | [U]        | 1.8  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 5                                                                                                                                  | <2.0   | [U]        | 2.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 8                                                                                                                                  | <1.7   | [U]        | 1.7  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 14                                                                                                                                 | <4.2   | [U]        | 4.2  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 11                                                                                                                                 | 25.6   |            | 4.1  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 13/12                                                                                                                              | <4.1   | [U]        | 4.1  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 15                                                                                                                                 | <4.3   | [U]        | 4.3  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 19                                                                                                                                 | <0.96  | [U]        | 0.96 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 30/18                                                                                                                              | 1.40   | J,R        | 0.64 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 17                                                                                                                                 | <0.75  | [U]        | 0.75 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 27                                                                                                                                 | <0.56  | [U]        | 0.56 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 24                                                                                                                                 | <0.64  | [U]        | 0.64 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 16                                                                                                                                 | <0.86  | [U]        | 0.86 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 32                                                                                                                                 | <0.51  | [U]        | 0.51 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 34                                                                                                                                 | <1.0   | [U]        | 1.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 23                                                                                                                                 | <1.0   | [U]        | 1.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 29/26                                                                                                                              | 1.40   | J,R        | 0.94 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 25                                                                                                                                 | <0.92  | [U]        | 0.92 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 31                                                                                                                                 | 2.70   | J,R        | 0.88 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 28/20                                                                                                                              | 103    |            | 0.99 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 21/33                                                                                                                              | 2.30   | J,R        | 0.93 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 22                                                                                                                                 | 2.8    | [J]        | 1.1  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 36                                                                                                                                 | <0.89  | [U]        | 0.89 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 39                                                                                                                                 | <1.1   | [U]        | 1.1  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 38                                                                                                                                 | <1.0   | [U]        | 1.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 35                                                                                                                                 | <1.0   | [U]        | 1.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 37                                                                                                                                 | 8.6    | [J]        | 1.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 54                                                                                                                                 | <0.42  | [U]        | 0.42 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 50/53                                                                                                                              | <0.69  | [U]        | 0.69 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 45/51                                                                                                                              | <0.73  | [U]        | 0.73 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 46                                                                                                                                 | <0.79  | [U]        | 0.79 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 52                                                                                                                                 | 20.6   |            | 0.71 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 73                                                                                                                                 | <0.50  | [U]        | 0.50 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 43                                                                                                                                 | <0.82  | [U]        | 0.82 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 69/49                                                                                                                              | 7.91   | [J]        | 0.59 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 48                                                                                                                                 | <0.69  | [U]        | 0.69 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 44/47/65                                                                                                                           | 172    |            | 0.60 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 59/62/75                                                                                                                           | 21.6   |            | 0.50 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 42                                                                                                                                 | 0.80   | J,R        | 0.79 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 41/71/40                                                                                                                           | <0.70  | [U]        | 0.70 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 64                                                                                                                                 | 4.23   | [J]        | 0.50 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 72                                                                                                                                 | 6.7    | [J]        | 1.1  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 68                                                                                                                                 | 1.7    | J,R        | 1.1  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 57                                                                                                                                 | <1.1   | [U]        | 1.1  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 58                                                                                                                                 | <1.1   | [U]        | 1.1  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 67                                                                                                                                 | <0.92  | [U]        | 0.92 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 63                                                                                                                                 | 22.7   |            | 1.1  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 61/70/74/76                                                                                                                        | 239    |            | 1.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |

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ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters                                                                       | Result | Qualifier* | D.L. | Units    | Extracted | Analyzed  | Batch    |
|-------------------------------------------------------------------------------------------------|--------|------------|------|----------|-----------|-----------|----------|
| L2756078-6     PLOT 110 - 4 JARS<br>Sampled By:    LdB/JK on 25-MAY-24<br>Matrix:        Tissue |        |            |      |          |           |           |          |
| <b>All PCB congeners by GC/HRMS</b>                                                             |        |            |      |          |           |           |          |
| PCB 66                                                                                          | 113    |            | 1.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 55                                                                                          | <1.2   | [U]        | 1.2  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 56                                                                                          | 1.3    | J,R        | 1.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 60                                                                                          | 31.4   |            | 1.1  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 80                                                                                          | <0.89  | [U]        | 0.89 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 79                                                                                          | 3.74   | [J]        | 0.95 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 78                                                                                          | <1.2   | [U]        | 1.2  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 81                                                                                          | 2.5    | J,R        | 1.1  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 77                                                                                          | 49.2   |            | 1.2  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 104                                                                                         | <0.51  | [U]        | 0.51 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 96                                                                                          | <0.72  | [U]        | 0.72 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 103                                                                                         | <1.3   | [U]        | 1.3  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 94                                                                                          | <1.4   | [U]        | 1.4  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 95                                                                                          | 8.9    | J,R        | 1.6  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 100/93/102/98                                                                               | 5.0    | J,R        | 1.2  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 88/91                                                                                       | 4.4    | [J]        | 1.3  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 84                                                                                          | <1.4   | [U]        | 1.4  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 89                                                                                          | <1.6   | [U]        | 1.6  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 121                                                                                         | <0.92  | [U]        | 0.92 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 92                                                                                          | 53.1   |            | 1.5  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 113/90/101                                                                                  | 144    |            | 1.1  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 83/99                                                                                       | 728    |            | 1.4  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 112                                                                                         | <0.86  | [U]        | 0.86 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 109/119/86/97/125/87                                                                        | 37.8   | M          | 1.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 117/116/85/110/115                                                                          | 181    | M          | 0.98 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 82                                                                                          | <1.7   | [U]        | 1.7  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 111                                                                                         | 4.60   | J,R        | 0.86 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 120                                                                                         | 17.5   |            | 0.88 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 108/124                                                                                     | 7.50   | J,R        | 0.94 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 107                                                                                         | 164    | M          | 0.93 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 123                                                                                         | 13.0   | M,R        | 1.1  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 106                                                                                         | <1.0   | [U]        | 1.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 118                                                                                         | 3170   |            | 0.79 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 122                                                                                         | <1.2   | [U]        | 1.2  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 114                                                                                         | 59.0   |            | 1.1  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 105                                                                                         | 539    |            | 1.1  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 127                                                                                         | 1.00   | J,R        | 0.91 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 126                                                                                         | 54.5   |            | 0.24 | pg/g wwt | 06-JUL-24 | 10-AUG-24 | R5984556 |
| PCB 155                                                                                         | <0.34  | [U]        | 0.34 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 152                                                                                         | <0.66  | [U]        | 0.66 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 150                                                                                         | <0.50  | [U]        | 0.50 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 136                                                                                         | 1.37   | [J]        | 0.58 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 145                                                                                         | <0.57  | [U]        | 0.57 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 148                                                                                         | 2.34   | [J]        | 0.76 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 151/135                                                                                     | 78.8   |            | 0.78 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 154                                                                                         | 29.7   |            | 0.60 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 144                                                                                         | 4.54   | [J]        | 0.79 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 147/149                                                                                     | 155    |            | 2.6  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 134/143                                                                                     | <3.2   | [U]        | 3.2  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 139/140                                                                                     | 15.8   |            | 2.5  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 131                                                                                         | <3.2   | [U]        | 3.2  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters       | Result | Qualifier* | D.L. | Units    | Extracted | Analyzed  | Batch    |
|---------------------------------|--------|------------|------|----------|-----------|-----------|----------|
| L2756078-6 PLOT 110 - 4 JARS    |        |            |      |          |           |           |          |
| Sampled By: LdB/JK on 25-MAY-24 |        |            |      |          |           |           |          |
| Matrix: Tissue                  |        |            |      |          |           |           |          |
| All PCB congeners by GC/HRMS    |        |            |      |          |           |           |          |
| PCB 142                         | <3.2   | [U]        | 3.2  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 132                         | 24.3   |            | 3.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 133                         | 103    |            | 2.9  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 165                         | 6.7    | [J]        | 2.1  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 146                         | 571    |            | 2.4  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 161                         | <1.8   | [U]        | 1.8  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 168/153                     | 3910   |            | 2.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 141                         | 77.1   |            | 2.5  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 130                         | 200    |            | 3.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 137/164                     | 62.5   | M          | 2.1  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 138/163/129                 | 2930   |            | 2.4  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 160                         | <2.0   | [U]        | 2.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 158                         | 157    |            | 1.6  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 128/166                     | 240    |            | 2.1  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 159                         | 3.2    | J,R        | 1.7  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 162                         | 23.6   |            | 1.9  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 167                         | 276    |            | 1.5  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 156/157                     | 551    |            | 2.5  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 169                         | 3.11   | [J]        | 0.25 | pg/g wwt | 06-JUL-24 | 10-AUG-24 | R5984556 |
| PCB 188                         | <1.2   | [U]        | 1.2  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 179                         | 4.8    | [J]        | 1.5  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 184                         | <1.3   | [U]        | 1.3  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 176                         | <1.4   | [U]        | 1.4  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 186                         | <1.5   | [U]        | 1.5  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 178                         | 422    |            | 2.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 175                         | 15.8   |            | 1.9  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 187                         | 2080   |            | 1.7  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 182                         | <1.7   | [U]        | 1.7  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 183                         | 491    |            | 1.7  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 185                         | 16.0   | R          | 2.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 174                         | 52.9   |            | 1.8  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 177                         | 960    |            | 1.9  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 181                         | 3.1    | J,R        | 1.9  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 171/173                     | 136    |            | 12   | pg/g wwt | 06-JUL-24 | 19-JUL-24 | R5984556 |
| PCB 172                         | 367    |            | 1.8  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 192                         | <1.5   | [U]        | 1.5  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 180/193                     | 4520   |            | 1.5  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 191                         | 22.4   |            | 1.3  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 170                         | 873    |            | 1.8  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 190                         | 433    |            | 1.1  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 189                         | 115    |            | 0.62 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 202                         | 114    |            | 0.37 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 201                         | 19.0   | R          | 0.42 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 204                         | <0.41  | [U]        | 0.41 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 197                         | 13.2   |            | 0.45 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 200                         | 1.26   | [J]        | 0.44 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 198/199                     | 1380   |            | 0.56 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 196                         | 181    |            | 0.53 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 203                         | 724    |            | 0.52 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 195                         | 329    |            | 0.70 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 194                         | 1410   |            | 0.64 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters       | Result | Qualifier* | D.L.   | Units    | Extracted | Analyzed  | Batch    |
|---------------------------------|--------|------------|--------|----------|-----------|-----------|----------|
| L2756078-6 PLOT 110 - 4 JARS    |        |            |        |          |           |           |          |
| Sampled By: LdB/JK on 25-MAY-24 |        |            |        |          |           |           |          |
| Matrix: Tissue                  |        |            |        |          |           |           |          |
| All PCB congeners by GC/HRMS    |        |            |        |          |           |           |          |
| PCB 205                         | 78.1   | M,J        | 0.62   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 208                         | 38     |            | 10     | pg/g wwt | 06-JUL-24 | 19-JUL-24 | R5984556 |
| PCB 207                         | 16.0   |            | 0.50   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 206                         | 268    |            | 0.61   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 209                         | 32.9   |            | 0.20   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 1          | 36.0   |            | 5-145  | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 3          | 41.0   |            | 5-145  | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 4          | 49.0   |            | 5-145  | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 15         | 55.0   |            | 5-145  | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 19         | 52.0   |            | 5-145  | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 37         | 62.0   |            | 5-145  | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 54         | 55.0   |            | 5-145  | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 81         | 82.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 77         | 81.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 104        | 82.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 123        | 91.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 118        | 106.0  |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 114        | 86.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 105        | 90.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 126        | 55.0   |            | 10-145 | %        | 06-JUL-24 | 10-AUG-24 | R5984556 |
| Surrogate: 13C12 PCB 155        | 87.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 167        | 88.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 156/157    | 82.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 169        | 75.0   |            | 10-145 | %        | 06-JUL-24 | 10-AUG-24 | R5984556 |
| Surrogate: 13C12 PCB 188        | 82.0   | R          | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 189        | 81.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 202        | 89.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 205        | 90.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 208        | 78.0   |            | 10-145 | %        | 06-JUL-24 | 19-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 206        | 92.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 209        | 99.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 28         | 59.0   |            | 5-145  | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 111        | 80.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 178        | 84.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total MonoCB                    | <0.57  | [U]        | 0.57   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total DiCB                      | 25.6   | [J]        | 1.7    | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total TriCB                     | 122    | [J]        | 0.51   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total TetraCB                   | 698    | [J]        | 0.42   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total PentaCB                   | 5190   | [J]        | 0.24   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total HexaCB                    | 9430   | [J]        | 0.25   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total HeptaCB                   | 10500  | [J]        | 0.62   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total OctaCB                    | 4250   | [J]        | 0.37   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total NonaCB                    | 322    | [J]        | 0.50   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| DecaCB                          | 32.9   | [J]        | 0.20   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total PCB                       | 30600  | [J]        | 1.0    | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Lower Bound PCB TEQ (WHO 2005)  | 5.69   |            |        | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Mid Point PCB TEQ (WHO 2005)    | 5.69   |            |        | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Upper Bound PCB TEQ (WHO 2005)  | 5.69   |            |        | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Dioxins and Furans HR 1613B     |        |            |        |          |           |           |          |
| 2,3,7,8-TCDD                    | 0.074  | J,R        | 0.055  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 1,2,3,7,8-PeCDD                 | 0.490  | J,R        | 0.051  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters               | Result | Qualifier* | D.L.   | Units    | Extracted | Analyzed  | Batch    |
|-----------------------------------------|--------|------------|--------|----------|-----------|-----------|----------|
| L2756078-6     PLOT 110 - 4 JARS        |        |            |        |          |           |           |          |
| Sampled By:    LdB/JK on 25-MAY-24      |        |            |        |          |           |           |          |
| Matrix:        Tissue                   |        |            |        |          |           |           |          |
| <b>Dioxins and Furans HR 1613B</b>      |        |            |        |          |           |           |          |
| 1,2,3,4,7,8-HxCDD                       | 0.321  | [J]        | 0.095  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 1,2,3,6,7,8-HxCDD                       | 0.48   | [J]        | 0.10   | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 1,2,3,7,8,9-HxCDD                       | 0.220  | J,R        | 0.096  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 1,2,3,4,6,7,8-HpCDD                     | 1.20   | [J]        | 0.051  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| OCDD                                    | 1.27   | M,J        | 0.11   | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 2,3,7,8-TCDF                            | 3.32   |            | 0.12   | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 1,2,3,7,8-PeCDF                         | 0.880  | J,R        | 0.075  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 2,3,4,7,8-PeCDF                         | 2.00   | J,R        | 0.062  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 1,2,3,4,7,8-HxCDF                       | 0.411  | [J]        | 0.055  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 1,2,3,6,7,8-HxCDF                       | 0.382  | [J]        | 0.058  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 2,3,4,6,7,8-HxCDF                       | 0.521  | M,J        | 0.055  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 1,2,3,7,8,9-HxCDF                       | <0.066 | M,U        | 0.066  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 1,2,3,4,6,7,8-HpCDF                     | 0.427  | [J]        | 0.038  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 1,2,3,4,7,8,9-HpCDF                     | <0.056 | M,U        | 0.056  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| OCDF                                    | 0.100  | M,J,R      | 0.077  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total-TCDD                              | <0.055 | [U]        | 0.055  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total TCDD # Homologues                 | 0      |            |        |          | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total-PeCDD                             | 0.380  |            | 0.051  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total PeCDD # Homologues                | 2      |            |        |          | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total-HxCDD                             | 1.38   |            | 0.10   | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total HxCDD # Homologues                | 3      |            |        |          | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total-HpCDD                             | 1.83   |            | 0.051  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total HpCDD # Homologues                | 2      |            |        |          | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total-TCDF                              | 3.62   |            | 0.12   | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total TCDF # Homologues                 | 6      |            |        |          | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total-PeCDF                             | 0.876  |            | 0.075  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total PeCDF # Homologues                | 2      |            |        |          | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total-HxCDF                             | 1.67   |            | 0.066  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total HxCDF # Homologues                | 5      |            |        |          | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total-HpCDF                             | 0.427  |            | 0.056  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total HpCDF # Homologues                | 1      |            |        |          | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Surrogate: 13C12-2,3,7,8-TCDD           | 55.0   |            | 25-164 | %        | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,7,8-PeCDD        | 58.0   |            | 25-181 | %        | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,4,7,8-HxCDD      | 63.0   |            | 32-141 | %        | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,6,7,8-HxCDD      | 64.0   |            | 28-130 | %        | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,4,6,7,8-HpCDD    | 70.0   |            | 23-140 | %        | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Surrogate: 13C12-OCDD                   | 69.0   |            | 17-157 | %        | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Surrogate: 13C12-2,3,7,8-TCDF           | 54.0   |            | 24-169 | %        | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,7,8-PeCDF        | 53.0   |            | 21-192 | %        | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Surrogate: 13C12-2,3,4,7,8-PeCDF        | 58.0   |            | 21-178 | %        | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,4,7,8-HxCDF      | 65.0   |            | 26-152 | %        | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,6,7,8-HxCDF      | 62.0   |            | 26-123 | %        | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Surrogate: 13C12-2,3,4,6,7,8-HxCDF      | 65.0   |            | 29-147 | %        | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,7,8,9-HxCDF      | 73.0   |            | 28-136 | %        | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,4,6,7,8-HpCDF    | 71.0   |            | 28-143 | %        | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,4,7,8,9-HpCDF    | 72.0   |            | 26-138 | %        | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Surrogate: 37Cl4-2,3,7,8-TCDD (Cleanup) | 47.0   |            | 31-197 | %        | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Lower Bound PCDD/F TEQ (WHO 2005)       | 0.561  |            | 0      | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Mid Point PCDD/F TEQ (WHO 2005)         | 1.78   |            | 0      | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Upper Bound PCDD/F TEQ (WHO 2005)       | 1.78   |            | 0      | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
|                                         |        |            |        |          |           |           |          |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters       | Result | Qualifier* | D.L. | Units   | Extracted | Analyzed  | Batch    |
|---------------------------------|--------|------------|------|---------|-----------|-----------|----------|
| L2756078-7 PLOT 114 - 4 JARS    |        |            |      |         |           |           |          |
| Sampled By: LdB/JK on 25-MAY-24 |        |            |      |         |           |           |          |
| Matrix: Tissue                  |        |            |      |         |           |           |          |
| Miscellaneous Parameters        |        |            |      |         |           |           |          |
| % Moisture                      | 71.5   |            | 0.10 | %       | 06-JUL-24 | 08-JUL-24 | R5984098 |
| All PCB congeners by GC/HRMS    |        |            |      |         |           |           |          |
| PCB 1                           | 0.74   | M,J,R      | 0.52 | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 2                           | <0.56  | [U]        | 0.56 | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 3                           | <0.64  | [U]        | 0.64 | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 4                           | <3.6   | [U]        | 3.6  | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 10                          | <2.1   | [U]        | 2.1  | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 9                           | <2.3   | [U]        | 2.3  | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 7                           | <2.2   | [U]        | 2.2  | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 6                           | <2.2   | [U]        | 2.2  | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 5                           | <2.4   | [U]        | 2.4  | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 8                           | <2.1   | [U]        | 2.1  | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 14                          | <4.5   | [U]        | 4.5  | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 11                          | 37.0   | R          | 4.4  | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 13/12                       | <4.4   | [U]        | 4.4  | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 15                          | <5.0   | [U]        | 5.0  | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 19                          | <1.1   | [U]        | 1.1  | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 30/18                       | 6.9    | [J]        | 1.1  | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 17                          | 1.7    | J,R        | 1.3  | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 27                          | <0.95  | [U]        | 0.95 | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 24                          | <1.1   | [U]        | 1.1  | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 16                          | 4.0    | [J]        | 1.5  | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 32                          | 2.06   | M,J        | 0.87 | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 34                          | <1.3   | [U]        | 1.3  | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 23                          | <1.3   | [U]        | 1.3  | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 29/26                       | 1.5    | J,R        | 1.2  | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 25                          | <1.2   | [U]        | 1.2  | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 31                          | 6.4    | J,R        | 1.1  | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 28/20                       | <1.3   | [U]        | 1.3  | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 21/33                       | 6.4    | [J]        | 1.2  | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 22                          | 3.5    | J,R        | 1.4  | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 36                          | <1.2   | [U]        | 1.2  | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 39                          | <1.4   | [U]        | 1.4  | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 38                          | <1.3   | [U]        | 1.3  | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 35                          | <1.4   | [U]        | 1.4  | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 37                          | 11.0   | R          | 1.5  | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 54                          | <0.33  | [U]        | 0.33 | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 50/53                       | <0.70  | [U]        | 0.70 | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 45/51                       | 1.35   | M,J        | 0.73 | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 46                          | <0.80  | [U]        | 0.80 | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 52                          | 12.2   |            | 0.72 | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 73                          | <0.51  | [U]        | 0.51 | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 43                          | <0.83  | [U]        | 0.83 | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 69/49                       | 2.70   | J,R        | 0.59 | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 48                          | 0.88   | [J]        | 0.70 | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 44/47/65                    | 9.40   | J,R        | 0.61 | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 59/62/75                    | 1.80   | J,R        | 0.51 | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 42                          | <0.80  | [U]        | 0.80 | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 41/71/40                    | 2.10   | M,J,R      | 0.71 | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 64                          | 3.60   | J,R        | 0.51 | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 72                          | <1.0   | [U]        | 1.0  | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.



ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters       | Result | Qualifier* | D.L. | Units     | Extracted | Analyzed  | Batch    |
|---------------------------------|--------|------------|------|-----------|-----------|-----------|----------|
| L2756078-7 PLOT 114 - 4 JARS    |        |            |      |           |           |           |          |
| Sampled By: LdB/JK on 25-MAY-24 |        |            |      |           |           |           |          |
| Matrix: Tissue                  |        |            |      |           |           |           |          |
| All PCB congeners by GC/HRMS    |        |            |      |           |           |           |          |
| PCB 68                          | <1.0   | [U]        | 1.0  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 57                          | <1.1   | [U]        | 1.1  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 58                          | <1.0   | [U]        | 1.0  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 67                          | <0.90  | [U]        | 0.90 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 63                          | 3.9    | J,R        | 1.0  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 61/70/74/76                 | 193    |            | 1.0  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 66                          | 41.0   | R          | 1.0  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 55                          | <1.1   | [U]        | 1.1  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 56                          | 4.5    | J,R        | 1.0  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 60                          | 32.1   |            | 1.1  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 80                          | <0.86  | [U]        | 0.86 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 79                          | 2.40   | J,R        | 0.93 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 78                          | <1.1   | [U]        | 1.1  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 81                          | 4.8    | [J]        | 1.1  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 77                          | 79.1   |            | 1.1  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 104                         | <0.67  | [U]        | 0.67 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 96                          | <0.90  | [U]        | 0.90 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 103                         | <1.5   | [U]        | 1.5  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 94                          | <1.7   | [U]        | 1.7  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 95                          | 17.2   |            | 1.9  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 100/93/102/98               | <1.5   | [U]        | 1.5  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 88/91                       | 3.0    | J,R        | 1.6  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 84                          | 3.2    | J,R        | 1.6  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 89                          | <1.9   | [U]        | 1.9  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 121                         | <1.1   | [U]        | 1.1  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 92                          | 16.6   |            | 1.8  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 113/90/101                  | 59.7   |            | 1.3  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 83/99                       | 204    |            | 1.6  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 112                         | <1.0   | [U]        | 1.0  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 109/119/86/97/125/87        | 26.7   | M          | 1.2  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 117/116/85/110/115          | 145    | M          | 1.2  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 82                          | <2.0   | [U]        | 2.0  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 111                         | <1.0   | [U]        | 1.0  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 120                         | 3.9    | J,R        | 1.0  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 108/124                     | 6.7    | J,R        | 2.1  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 107                         | 78.3   | M          | 2.1  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 123                         | 6.8    | M,J        | 2.3  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 106                         | <2.3   | [U]        | 2.3  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 118                         | 3420   |            | 1.8  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 122                         | <2.7   | [U]        | 2.7  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 114                         | 48.0   | R          | 2.3  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 105                         | 565    |            | 2.2  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 127                         | 3.2    | [J]        | 2.0  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 126                         | 118    | M          | 0.22 | pg/g wwft | 06-JUL-24 | 12-AUG-24 | R5984556 |
| PCB 155                         | <0.27  | [U]        | 0.27 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 152                         | <0.54  | [U]        | 0.54 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 150                         | <0.40  | [U]        | 0.40 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 136                         | 3.20   | J,R        | 0.47 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 145                         | <0.46  | [U]        | 0.46 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 148                         | <0.62  | [U]        | 0.62 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 151/135                     | 56.4   |            | 0.63 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters                                                                       | Result | Qualifier* | D.L. | Units    | Extracted | Analyzed  | Batch    |
|-------------------------------------------------------------------------------------------------|--------|------------|------|----------|-----------|-----------|----------|
| L2756078-7     PLOT 114 - 4 JARS<br>Sampled By:    LdB/JK on 25-MAY-24<br>Matrix:        Tissue |        |            |      |          |           |           |          |
| <b>All PCB congeners by GC/HRMS</b>                                                             |        |            |      |          |           |           |          |
| PCB 154                                                                                         | <0.49  | [U]        | 0.49 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 144                                                                                         | 4.51   | [J]        | 0.64 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 147/149                                                                                     | 95.4   |            | 2.4  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 134/143                                                                                     | 3.9    | J,R        | 3.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 139/140                                                                                     | 9.4    | [J]        | 2.3  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 131                                                                                         | <3.0   | [U]        | 3.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 142                                                                                         | <3.0   | [U]        | 3.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 132                                                                                         | 31.5   |            | 2.8  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 133                                                                                         | 34.0   | R          | 2.6  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 165                                                                                         | 4.2    | J,R        | 2.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 146                                                                                         | 208    |            | 2.2  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 161                                                                                         | <1.6   | [U]        | 1.6  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 168/153                                                                                     | 3080   |            | 1.8  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 141                                                                                         | 58.0   | R          | 2.3  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 130                                                                                         | 120    |            | 2.8  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 137/164                                                                                     | 42.5   | M          | 2.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 138/163/129                                                                                 | 2810   |            | 2.2  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 160                                                                                         | <1.8   | [U]        | 1.8  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 158                                                                                         | 169    |            | 1.4  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 128/166                                                                                     | 277    |            | 1.9  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 159                                                                                         | 4.4    | J,R        | 1.6  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 162                                                                                         | 28.5   |            | 1.7  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 167                                                                                         | 487    |            | 1.4  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 156/157                                                                                     | 972    |            | 2.2  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 169                                                                                         | 11.2   | M          | 0.12 | pg/g wwt | 06-JUL-24 | 12-AUG-24 | R5984556 |
| PCB 188                                                                                         | <1.3   | [U]        | 1.3  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 179                                                                                         | 13.0   |            | 1.6  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 184                                                                                         | <1.5   | [U]        | 1.5  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 176                                                                                         | 3.1    | J,R        | 1.5  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 186                                                                                         | <1.6   | [U]        | 1.6  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 178                                                                                         | 459    |            | 2.2  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 175                                                                                         | 12.4   |            | 2.1  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 187                                                                                         | 2340   |            | 1.9  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 182                                                                                         | <1.9   | [U]        | 1.9  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 183                                                                                         | 458    |            | 1.9  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 185                                                                                         | 16.5   |            | 2.2  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 174                                                                                         | 60.3   |            | 1.9  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 177                                                                                         | 1210   |            | 2.1  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 181                                                                                         | 6.2    | J,R        | 2.1  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 171/173                                                                                     | 131    |            | 13   | pg/g wwt | 06-JUL-24 | 19-JUL-24 | R5984556 |
| PCB 172                                                                                         | 520    |            | 2.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 192                                                                                         | 1.8    | J,R        | 1.7  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 180/193                                                                                     | 7280   |            | 1.6  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 191                                                                                         | 28.0   |            | 1.4  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 170                                                                                         | 1090   |            | 2.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 190                                                                                         | 934    |            | 1.2  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 189                                                                                         | 270    |            | 0.68 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 202                                                                                         | 195    |            | 0.42 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 201                                                                                         | 25.4   |            | 0.49 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 204                                                                                         | <0.48  | [U]        | 0.48 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 197                                                                                         | 16.8   |            | 0.53 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters                                                                       | Result | Qualifier* | D.L.   | Units    | Extracted | Analyzed  | Batch    |
|-------------------------------------------------------------------------------------------------|--------|------------|--------|----------|-----------|-----------|----------|
| L2756078-7     PLOT 114 - 4 JARS<br>Sampled By:    LdB/JK on 25-MAY-24<br>Matrix:        Tissue |        |            |        |          |           |           |          |
| <b>All PCB congeners by GC/HRMS</b>                                                             |        |            |        |          |           |           |          |
| PCB 200                                                                                         | 3.52   | [J]        | 0.52   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 198/199                                                                                     | 3470   |            | 0.67   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 196                                                                                         | 215    |            | 0.63   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 203                                                                                         | 1570   |            | 0.61   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 195                                                                                         | 764    |            | 1.4    | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 194                                                                                         | 3930   |            | 1.2    | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 205                                                                                         | 221    |            | 1.3    | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 208                                                                                         | 91     | M,J        | 11     | pg/g wwt | 06-JUL-24 | 19-JUL-24 | R5984556 |
| PCB 207                                                                                         | 30.0   | R          | 0.92   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 206                                                                                         | 844    |            | 1.1    | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 209                                                                                         | 82.4   |            | 0.21   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 1                                                                          | 28.0   |            | 5-145  | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 3                                                                          | 29.0   |            | 5-145  | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 4                                                                          | 41.0   |            | 5-145  | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 15                                                                         | 43.0   |            | 5-145  | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 19                                                                         | 45.0   |            | 5-145  | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 37                                                                         | 51.0   |            | 5-145  | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 54                                                                         | 49.0   |            | 5-145  | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 81                                                                         | 63.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 77                                                                         | 65.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 104                                                                        | 57.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 123                                                                        | 67.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 118                                                                        | 77.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 114                                                                        | 65.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 105                                                                        | 71.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 126                                                                        | 72.0   |            | 10-145 | %        | 06-JUL-24 | 12-AUG-24 | R5984556 |
| Surrogate: 13C12 PCB 155                                                                        | 72.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 167                                                                        | 68.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 156/157                                                                    | 65.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 169                                                                        | 83.0   |            | 10-145 | %        | 06-JUL-24 | 12-AUG-24 | R5984556 |
| Surrogate: 13C12 PCB 188                                                                        | 65.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 189                                                                        | 65.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 202                                                                        | 70.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 205                                                                        | 70.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 208                                                                        | 67.0   |            | 10-145 | %        | 06-JUL-24 | 19-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 206                                                                        | 70.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 209                                                                        | 79.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 28                                                                         | 56.0   |            | 5-145  | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 111                                                                        | 72.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 178                                                                        | 71.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total MonoCB                                                                                    | 0.74   | [J]        | 0.52   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total DiCB                                                                                      | 37.0   | [J]        | 2.1    | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total TriCB                                                                                     | 43.5   | [J]        | 0.87   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total TetraCB                                                                                   | 395    | [J]        | 0.33   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total PentaCB                                                                                   | 4730   | [J]        | 0.22   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total HexaCB                                                                                    | 8510   | [J]        | 0.12   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total HeptaCB                                                                                   | 14800  | [J]        | 0.68   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total OctaCB                                                                                    | 10400  | [J]        | 0.42   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total NonaCB                                                                                    | 965    | [J]        | 0.92   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| DecaCB                                                                                          | 82.4   | [J]        | 0.21   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total PCB                                                                                       | 40000  | [J]        | 1.0    | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters            | Result | Qualifier* | D.L.   | Units    | Extracted | Analyzed  | Batch    |
|--------------------------------------|--------|------------|--------|----------|-----------|-----------|----------|
| L2756078-7 PLOT 114 - 4 JARS         |        |            |        |          |           |           |          |
| Sampled By: LdB/JK on 25-MAY-24      |        |            |        |          |           |           |          |
| Matrix: Tissue                       |        |            |        |          |           |           |          |
| All PCB congeners by GC/HRMS         |        |            |        |          |           |           |          |
| Lower Bound PCB TEQ (WHO 2005)       | 12.3   |            |        | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Mid Point PCB TEQ (WHO 2005)         | 12.3   |            |        | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Upper Bound PCB TEQ (WHO 2005)       | 12.3   |            |        | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Dioxins and Furans HR 1613B          |        |            |        |          |           |           |          |
| 2,3,7,8-TCDD                         | 0.074  | M,J        | 0.073  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 1,2,3,7,8-PeCDD                      | 0.470  | M,J,R      | 0.065  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 1,2,3,4,7,8-HxCDD                    | 0.15   | M,J,R      | 0.11   | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 1,2,3,6,7,8-HxCDD                    | 0.35   | [J]        | 0.11   | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 1,2,3,7,8,9-HxCDD                    | 0.22   | [J]        | 0.11   | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 1,2,3,4,6,7,8-HpCDD                  | 1.15   | [J]        | 0.11   | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| OCDD                                 | 1.20   | J,R        | 0.11   | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 2,3,7,8-TCDF                         | 2.16   | M          | 0.17   | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 1,2,3,7,8-PeCDF                      | 1.01   | J,B        | 0.089  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 2,3,4,7,8-PeCDF                      | 1.62   | [J]        | 0.066  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 1,2,3,4,7,8-HxCDF                    | 0.32   | J,R        | 0.13   | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 1,2,3,6,7,8-HxCDF                    | 0.47   | J,R        | 0.15   | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 2,3,4,6,7,8-HxCDF                    | 0.53   | M,J        | 0.13   | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 1,2,3,7,8,9-HxCDF                    | <0.16  | M,U        | 0.16   | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 1,2,3,4,6,7,8-HpCDF                  | 0.440  | J,R        | 0.037  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 1,2,3,4,7,8,9-HpCDF                  | 0.121  | M,J        | 0.053  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| OCDF                                 | 0.21   | M,J        | 0.11   | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total-TCDD                           | 0.074  |            | 0.073  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total TCDD # Homologues              | 1      |            |        |          | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total-PeCDD                          | <0.065 | [U]        | 0.065  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total PeCDD # Homologues             | 0      |            |        |          | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total-HxCDD                          | 0.57   |            | 0.11   | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total HxCDD # Homologues             | 2      |            |        |          | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total-HpCDD                          | 1.65   |            | 0.11   | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total HpCDD # Homologues             | 2      |            |        |          | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total-TCDF                           | 2.52   |            | 0.17   | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total TCDF # Homologues              | 6      |            |        |          | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total-PeCDF                          | 3.96   |            | 0.089  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total PeCDF # Homologues             | 3      |            |        |          | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total-HxCDF                          | 1.87   |            | 0.16   | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total HxCDF # Homologues             | 5      |            |        |          | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total-HpCDF                          | 0.368  |            | 0.053  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total HpCDF # Homologues             | 2      |            |        |          | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Surrogate: 13C12-2,3,7,8-TCDD        | 53.0   |            | 25-164 | %        | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,7,8-PeCDD     | 56.0   |            | 25-181 | %        | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,4,7,8-HxCDD   | 59.0   |            | 32-141 | %        | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,6,7,8-HxCDD   | 60.0   |            | 28-130 | %        | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,4,6,7,8-HpCDD | 65.0   |            | 23-140 | %        | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Surrogate: 13C12-OCDD                | 64.0   |            | 17-157 | %        | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Surrogate: 13C12-2,3,7,8-TCDF        | 51.0   |            | 24-169 | %        | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,7,8-PeCDF     | 51.0   |            | 21-192 | %        | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Surrogate: 13C12-2,3,4,7,8-PeCDF     | 58.0   |            | 21-178 | %        | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,4,7,8-HxCDF   | 60.0   |            | 26-152 | %        | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,6,7,8-HxCDF   | 55.0   |            | 26-123 | %        | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Surrogate: 13C12-2,3,4,6,7,8-HxCDF   | 61.0   |            | 29-147 | %        | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,7,8,9-HxCDF   | 69.0   |            | 28-136 | %        | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,4,6,7,8-HpCDF | 66.0   |            | 28-143 | %        | 06-JUL-24 | 16-JUL-24 | R5984556 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

# ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters               |                   | Result | Qualifier* | D.L.   | Units   | Extracted | Analyzed  | Batch    |
|-----------------------------------------|-------------------|--------|------------|--------|---------|-----------|-----------|----------|
| L2756078-7                              | PLOT 114 - 4 JARS |        |            |        |         |           |           |          |
| Sampled By: LdB/JK on 25-MAY-24         |                   |        |            |        |         |           |           |          |
| Matrix: Tissue                          |                   |        |            |        |         |           |           |          |
| Dioxins and Furans HR 1613B             |                   |        |            |        |         |           |           |          |
| Surrogate: 13C12-1,2,3,4,7,8,9-HpCDF    |                   | 68.0   |            | 26-138 | %       | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Surrogate: 37Cl4-2,3,7,8-TCDD (Cleanup) |                   | 53.0   |            | 31-197 | %       | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Lower Bound PCDD/F TEQ (WHO 2005)       |                   | 0.929  |            | 0      | pg/g ww | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Mid Point PCDD/F TEQ (WHO 2005)         |                   | 1.51   |            | 0      | pg/g ww | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Upper Bound PCDD/F TEQ (WHO 2005)       |                   | 1.51   |            | 0      | pg/g ww | 06-JUL-24 | 16-JUL-24 | R5984556 |
| L2756078-8                              | PLOT 117 - 1 JAR  |        |            |        |         |           |           |          |
| Sampled By: LdB/JK on 25-MAY-24         |                   |        |            |        |         |           |           |          |
| Matrix: Tissue                          |                   |        |            |        |         |           |           |          |
| Miscellaneous Parameters                |                   |        |            |        |         |           |           |          |
| % Moisture                              |                   | 70.0   |            | 0.10   | %       | 06-JUL-24 | 08-JUL-24 | R5984098 |
| All PCB congeners by GC/HRMS            |                   |        |            |        |         |           |           |          |
| PCB 1                                   |                   | <0.71  | [U]        | 0.71   | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 2                                   |                   | 1.00   | J,R        | 0.77   | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 3                                   |                   | <0.87  | [U]        | 0.87   | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 4                                   |                   | <7.6   | [U]        | 7.6    | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 10                                  |                   | <4.5   | [U]        | 4.5    | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 9                                   |                   | <4.8   | [U]        | 4.8    | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 7                                   |                   | <4.7   | [U]        | 4.7    | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 6                                   |                   | <4.7   | [U]        | 4.7    | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 5                                   |                   | <5.0   | [U]        | 5.0    | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 8                                   |                   | <4.4   | [U]        | 4.4    | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 14                                  |                   | <6.0   | [U]        | 6.0    | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 11                                  |                   | 51.7   |            | 5.9    | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 13/12                               |                   | <5.8   | [U]        | 5.8    | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 15                                  |                   | <6.5   | [U]        | 6.5    | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 19                                  |                   | <2.6   | [U]        | 2.6    | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 30/18                               |                   | 2.0    | M,J,R      | 1.9    | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 17                                  |                   | <2.2   | M,U        | 2.2    | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 27                                  |                   | <1.7   | [U]        | 1.7    | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 24                                  |                   | <1.9   | [U]        | 1.9    | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 16                                  |                   | <2.6   | [U]        | 2.6    | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 32                                  |                   | <1.5   | [U]        | 1.5    | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 34                                  |                   | <1.9   | [U]        | 1.9    | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 23                                  |                   | <1.9   | [U]        | 1.9    | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 29/26                               |                   | <1.8   | [U]        | 1.8    | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 25                                  |                   | <1.7   | [U]        | 1.7    | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 31                                  |                   | 3.2    | J,R        | 1.7    | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 28/20                               |                   | 12.6   | [J]        | 1.9    | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 21/33                               |                   | <1.8   | M,U        | 1.8    | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 22                                  |                   | <2.0   | M,J,R      | 2.0    | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 36                                  |                   | <1.7   | [U]        | 1.7    | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 39                                  |                   | <2.0   | [U]        | 2.0    | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 38                                  |                   | <1.9   | [U]        | 1.9    | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 35                                  |                   | <2.0   | [U]        | 2.0    | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 37                                  |                   | 3.8    | J,R        | 1.9    | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 54                                  |                   | <0.76  | [U]        | 0.76   | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 50/53                               |                   | <1.7   | [U]        | 1.7    | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 45/51                               |                   | <1.8   | [U]        | 1.8    | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 46                                  |                   | <1.9   | [U]        | 1.9    | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 52                                  |                   | 6.5    | J,R        | 1.7    | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 73                                  |                   | <1.2   | [U]        | 1.2    | pg/g ww | 06-JUL-24 | 14-JUL-24 | R5984556 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters       | Result | Qualifier* | D.L. | Units    | Extracted | Analyzed  | Batch    |
|---------------------------------|--------|------------|------|----------|-----------|-----------|----------|
| L2756078-8 PLOT 117 - 1 JAR     |        |            |      |          |           |           |          |
| Sampled By: LdB/JK on 25-MAY-24 |        |            |      |          |           |           |          |
| Matrix: Tissue                  |        |            |      |          |           |           |          |
| All PCB congeners by GC/HRMS    |        |            |      |          |           |           |          |
| PCB 43                          | <2.0   | [U]        | 2.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 69/49                       | 2.0    | M,J        | 1.4  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 48                          | <1.7   | [U]        | 1.7  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 44/47/65                    | 7.1    | J,R        | 1.5  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 59/62/75                    | <1.2   | [U]        | 1.2  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 42                          | <1.9   | [U]        | 1.9  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 41/71/40                    | <1.7   | [U]        | 1.7  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 64                          | 1.5    | M,J,R      | 1.2  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 72                          | <1.3   | [U]        | 1.3  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 68                          | <1.3   | [U]        | 1.3  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 57                          | <1.4   | [U]        | 1.4  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 58                          | <1.3   | [U]        | 1.3  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 67                          | <1.1   | [U]        | 1.1  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 63                          | <1.3   | [U]        | 1.3  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 61/70/74/76                 | 43.9   |            | 1.3  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 66                          | 10.2   | [J]        | 1.3  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 55                          | <1.5   | [U]        | 1.5  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 56                          | <1.3   | J,R        | 1.3  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 60                          | 5.6    | [J]        | 1.4  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 80                          | <1.1   | [U]        | 1.1  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 79                          | <1.2   | [U]        | 1.2  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 78                          | <1.4   | [U]        | 1.4  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 81                          | 1.5    | J,R        | 1.4  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 77                          | 19.4   | [J]        | 1.5  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 104                         | <1.3   | [U]        | 1.3  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 96                          | <1.8   | [U]        | 1.8  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 103                         | <2.9   | [U]        | 2.9  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 94                          | <3.1   | [U]        | 3.1  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 95                          | 4.4    | M,J,R      | 3.6  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 100/93/102/98               | <2.7   | [U]        | 2.7  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 88/91                       | <2.9   | [U]        | 2.9  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 84                          | <3.1   | [U]        | 3.1  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 89                          | <3.7   | [U]        | 3.7  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 121                         | <2.1   | [U]        | 2.1  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 92                          | <3.3   | [U]        | 3.3  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 113/90/101                  | 13.6   | [J]        | 2.4  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 83/99                       | 42.5   |            | 3.1  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 112                         | <1.9   | [U]        | 1.9  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 109/119/86/97/125/87        | 7.4    | M,J,R      | 2.3  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 117/116/85/110/115          | 32.4   | M          | 2.2  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 82                          | <3.7   | [U]        | 3.7  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 111                         | <1.9   | [U]        | 1.9  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 120                         | <2.0   | [U]        | 2.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 108/124                     | 2.4    | J,R        | 1.8  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 107                         | 16.9   | M,J        | 1.8  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 123                         | <2.0   | M,U        | 2.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 106                         | <2.0   | [U]        | 2.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 118                         | 636    |            | 1.6  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 122                         | <2.3   | [U]        | 2.3  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 114                         | 6.9    | J,R        | 2.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 105                         | 116    |            | 2.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters                                                                                                             | Result | Qualifier* | D.L. | Units    | Extracted | Analyzed  | Batch    |
|---------------------------------------------------------------------------------------------------------------------------------------|--------|------------|------|----------|-----------|-----------|----------|
| L2756078-8     PLOT 117 - 1 JAR<br>Sampled By:    LdB/JK on 25-MAY-24<br>Matrix:        Tissue<br><b>All PCB congeners by GC/HRMS</b> |        |            |      |          |           |           |          |
| PCB 127                                                                                                                               | <1.7   | [U]        | 1.7  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 126                                                                                                                               | 21.6   | M          | 0.19 | pg/g wwt | 06-JUL-24 | 12-AUG-24 | R5984556 |
| PCB 155                                                                                                                               | <0.40  | [U]        | 0.40 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 152                                                                                                                               | <0.77  | [U]        | 0.77 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 150                                                                                                                               | <0.58  | [U]        | 0.58 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 136                                                                                                                               | <0.68  | M,U        | 0.68 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 145                                                                                                                               | <0.66  | [U]        | 0.66 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 148                                                                                                                               | <0.88  | [U]        | 0.88 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 151/135                                                                                                                           | 7.90   | M,J,R      | 0.90 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 154                                                                                                                               | <0.69  | [U]        | 0.69 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 144                                                                                                                               | <0.91  | M,U        | 0.91 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 147/149                                                                                                                           | <2.6   | M,U        | 2.6  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 134/143                                                                                                                           | <3.3   | [U]        | 3.3  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 139/140                                                                                                                           | <2.5   | [U]        | 2.5  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 131                                                                                                                               | <3.2   | [U]        | 3.2  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 142                                                                                                                               | <3.3   | [U]        | 3.3  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 132                                                                                                                               | 6.6    | [J]        | 3.1  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 133                                                                                                                               | 4.9    | [J]        | 2.9  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 165                                                                                                                               | <2.1   | [U]        | 2.1  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 146                                                                                                                               | 37.8   |            | 2.4  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 161                                                                                                                               | <1.8   | [U]        | 1.8  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 168/153                                                                                                                           | 484    |            | 2.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 141                                                                                                                               | 9.4    | J,R        | 2.5  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 130                                                                                                                               | 25.9   | M          | 3.1  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 137/164                                                                                                                           | 11.4   | M,J        | 2.1  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 138/163/129                                                                                                                       | 483    |            | 2.4  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 160                                                                                                                               | <2.0   | [U]        | 2.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 158                                                                                                                               | 22.6   |            | 1.6  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 128/166                                                                                                                           | 44.8   | M          | 2.1  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 159                                                                                                                               | <1.7   | [U]        | 1.7  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 162                                                                                                                               | 7.9    | [J]        | 1.9  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 167                                                                                                                               | 89.0   |            | 1.6  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 156/157                                                                                                                           | 190    |            | 2.4  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 169                                                                                                                               | 2.00   | M,J,R      | 0.12 | pg/g wwt | 06-JUL-24 | 12-AUG-24 | R5984556 |
| PCB 188                                                                                                                               | <1.2   | [U]        | 1.2  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 179                                                                                                                               | <1.5   | [U]        | 1.5  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 184                                                                                                                               | <1.4   | [U]        | 1.4  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 176                                                                                                                               | <1.4   | [U]        | 1.4  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 186                                                                                                                               | <1.5   | [U]        | 1.5  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 178                                                                                                                               | 81.5   |            | 2.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 175                                                                                                                               | 2.8    | J,R        | 1.9  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 187                                                                                                                               | 343    |            | 1.8  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 182                                                                                                                               | <1.7   | [U]        | 1.7  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 183                                                                                                                               | 81.0   | R          | 1.8  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 185                                                                                                                               | <2.1   | [U]        | 2.1  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 174                                                                                                                               | 9.1    | [J]        | 1.8  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 177                                                                                                                               | 200    |            | 2.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 181                                                                                                                               | <2.0   | [U]        | 2.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 171/173                                                                                                                           | 23.0   | J,R        | 9.5  | pg/g wwt | 06-JUL-24 | 19-JUL-24 | R5984556 |
| PCB 172                                                                                                                               | 108    |            | 1.9  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 192                                                                                                                               | <1.6   | [U]        | 1.6  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters       | Result | Qualifier* | D.L.   | Units    | Extracted | Analyzed  | Batch    |
|---------------------------------|--------|------------|--------|----------|-----------|-----------|----------|
| L2756078-8 PLOT 117 - 1 JAR     |        |            |        |          |           |           |          |
| Sampled By: LdB/JK on 25-MAY-24 |        |            |        |          |           |           |          |
| Matrix: Tissue                  |        |            |        |          |           |           |          |
| All PCB congeners by GC/HRMS    |        |            |        |          |           |           |          |
| PCB 180/193                     | 1110   |            | 1.5    | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 191                         | 4.8    | J,R        | 1.3    | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 170                         | 152    |            | 1.8    | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 190                         | 172    |            | 1.1    | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 189                         | 51.4   |            | 1.1    | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 202                         | 36.0   | R          | 0.42   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 201                         | 4.60   | J,R        | 0.48   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 204                         | <0.47  | [U]        | 0.47   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 197                         | 4.27   | [J]        | 0.51   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 200                         | <0.51  | [U]        | 0.51   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 198/199                     | 596    |            | 0.64   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 196                         | 24.0   | R          | 0.61   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 203                         | 248    |            | 0.59   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 195                         | 116    |            | 1.1    | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 194                         | 713    |            | 0.98   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 205                         | 44.8   |            | 0.95   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 208                         | 19     | M,J        | 10     | pg/g wwt | 06-JUL-24 | 19-JUL-24 | R5984556 |
| PCB 207                         | 3.40   | J,R        | 0.85   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 206                         | 153    |            | 1.3    | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 209                         | 20.8   | [J]        | 0.36   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 1          | 40.0   |            | 5-145  | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 3          | 39.0   |            | 5-145  | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 4          | 51.0   |            | 5-145  | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 15         | 50.0   |            | 5-145  | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 19         | 53.0   |            | 5-145  | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 37         | 63.0   |            | 5-145  | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 54         | 56.0   |            | 5-145  | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 81         | 74.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 77         | 73.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 104        | 71.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 123        | 81.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 118        | 94.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 114        | 79.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 105        | 83.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 126        | 96.0   |            | 10-145 | %        | 06-JUL-24 | 12-AUG-24 | R5984556 |
| Surrogate: 13C12 PCB 155        | 78.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 167        | 77.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 156/157    | 76.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 169        | 115.0  |            | 10-145 | %        | 06-JUL-24 | 12-AUG-24 | R5984556 |
| Surrogate: 13C12 PCB 188        | 76.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 189        | 77.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 202        | 80.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 205        | 84.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 208        | 80.0   |            | 10-145 | %        | 06-JUL-24 | 19-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 206        | 85.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 209        | 93.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 28         | 54.0   |            | 5-145  | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 111        | 72.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 178        | 73.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total MonoCB                    | 1.00   | [J]        | 0.71   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total DiCB                      | 51.7   | [J]        | 4.4    | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.



ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters            | Result | Qualifier* | D.L.   | Units    | Extracted | Analyzed  | Batch    |
|--------------------------------------|--------|------------|--------|----------|-----------|-----------|----------|
| L2756078-8 PLOT 117 - 1 JAR          |        |            |        |          |           |           |          |
| Sampled By: LdB/JK on 25-MAY-24      |        |            |        |          |           |           |          |
| Matrix: Tissue                       |        |            |        |          |           |           |          |
| All PCB congeners by GC/HRMS         |        |            |        |          |           |           |          |
| Total TriCB                          | 21.6   | [J]        | 1.5    | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total TetraCB                        | 97.6   | [J]        | 0.76   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total PentaCB                        | 900    | [J]        | 0.19   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total HexaCB                         | 1430   | [J]        | 0.12   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total HeptaCB                        | 2340   | [J]        | 1.1    | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total OctaCB                         | 1790   | [J]        | 0.42   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total NonaCB                         | 175    | [J]        | 0.85   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| DecaCB                               | 20.8   | [J]        | 0.36   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total PCB                            | 6820   | [J]        | 1.0    | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Lower Bound PCB TEQ (WHO 2005)       | 2.19   |            |        | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Mid Point PCB TEQ (WHO 2005)         | 2.26   |            |        | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Upper Bound PCB TEQ (WHO 2005)       | 2.26   |            |        | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Dioxins and Furans HR 1613B          |        |            |        |          |           |           |          |
| 2,3,7,8-TCDD                         | <0.078 | M,U        | 0.078  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 1,2,3,7,8-PeCDD                      | 0.33   | [J]        | 0.14   | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 1,2,3,4,7,8-HxCDD                    | 0.17   | J,R        | 0.12   | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 1,2,3,6,7,8-HxCDD                    | 0.31   | [J]        | 0.12   | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 1,2,3,7,8,9-HxCDD                    | 0.13   | J,R        | 0.12   | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 1,2,3,4,6,7,8-HpCDD                  | 0.42   | M,J,R      | 0.12   | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| OCDD                                 | 0.92   | M,J,R      | 0.20   | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 2,3,7,8-TCDF                         | 0.83   | J,R        | 0.13   | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 1,2,3,7,8-PeCDF                      | 0.52   | J,B        | 0.19   | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 2,3,4,7,8-PeCDF                      | 0.73   | J,R        | 0.13   | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 1,2,3,4,7,8-HxCDF                    | 0.25   | [J]        | 0.11   | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 1,2,3,6,7,8-HxCDF                    | 0.17   | J,R        | 0.12   | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 2,3,4,6,7,8-HxCDF                    | 0.36   | [J]        | 0.12   | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 1,2,3,7,8,9-HxCDF                    | <0.15  | M,U        | 0.15   | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 1,2,3,4,6,7,8-HpCDF                  | 0.22   | J,R        | 0.11   | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 1,2,3,4,7,8,9-HpCDF                  | <0.16  | M,U        | 0.16   | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| OCDF                                 | 0.18   | M,J,R      | 0.17   | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total-TCDD                           | <0.078 | [U]        | 0.078  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total TCDD # Homologues              | 0      |            |        |          | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total-PeCDD                          | 0.33   |            | 0.14   | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total PeCDD # Homologues             | 1      |            |        |          | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total-HxCDD                          | 0.31   |            | 0.12   | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total HxCDD # Homologues             | 1      |            |        |          | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total-HpCDD                          | <0.12  | [U]        | 0.12   | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total HpCDD # Homologues             | 0      |            |        |          | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total-TCDF                           | <0.13  | [U]        | 0.13   | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total TCDF # Homologues              | 0      |            |        |          | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total-PeCDF                          | 1.18   |            | 0.19   | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total PeCDF # Homologues             | 4      |            |        |          | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total-HxCDF                          | 0.61   |            | 0.15   | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total HxCDF # Homologues             | 2      |            |        |          | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total-HpCDF                          | <0.16  | [U]        | 0.16   | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total HpCDF # Homologues             | 0      |            |        |          | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Surrogate: 13C12-2,3,7,8-TCDD        | 72.0   |            | 25-164 | %        | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,7,8-PeCDD     | 73.0   |            | 25-181 | %        | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,4,7,8-HxCDD   | 80.0   |            | 32-141 | %        | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,6,7,8-HxCDD   | 79.0   |            | 28-130 | %        | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,4,6,7,8-HpCDD | 84.0   |            | 23-140 | %        | 06-JUL-24 | 16-JUL-24 | R5984556 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

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ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters                                                                       | Result | Qualifier* | D.L. | Units    | Extracted | Analyzed  | Batch    |
|-------------------------------------------------------------------------------------------------|--------|------------|------|----------|-----------|-----------|----------|
| L2756078-9     PLOT 123 - 3 JARS<br>Sampled By:    LdB/JK on 25-MAY-24<br>Matrix:        Tissue |        |            |      |          |           |           |          |
| <b>All PCB congeners by GC/HRMS</b>                                                             |        |            |      |          |           |           |          |
| PCB 38                                                                                          | <0.93  | [U]        | 0.93 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 35                                                                                          | <0.95  | [U]        | 0.95 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 37                                                                                          | 3.70   | M,J,R      | 0.98 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 54                                                                                          | <0.49  | [U]        | 0.49 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 50/53                                                                                       | <0.86  | [U]        | 0.86 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 45/51                                                                                       | <0.91  | [U]        | 0.91 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 46                                                                                          | <0.99  | [U]        | 0.99 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 52                                                                                          | 6.31   | [J]        | 0.89 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 73                                                                                          | <0.63  | [U]        | 0.63 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 43                                                                                          | <1.0   | [U]        | 1.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 69/49                                                                                       | 1.64   | M,J        | 0.74 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 48                                                                                          | <0.87  | [U]        | 0.87 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 44/47/65                                                                                    | 6.60   | J,R        | 0.76 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 59/62/75                                                                                    | <0.63  | [U]        | 0.63 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 42                                                                                          | <1.0   | [U]        | 1.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 41/71/40                                                                                    | <0.88  | [U]        | 0.88 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 64                                                                                          | 0.85   | J,R        | 0.63 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 72                                                                                          | <0.97  | [U]        | 0.97 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 68                                                                                          | <0.96  | [U]        | 0.96 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 57                                                                                          | <1.0   | [U]        | 1.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 58                                                                                          | <0.98  | [U]        | 0.98 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 67                                                                                          | <0.84  | [U]        | 0.84 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 63                                                                                          | 1.10   | J,R        | 0.97 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 61/70/74/76                                                                                 | 67.5   |            | 0.95 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 66                                                                                          | 20.4   |            | 0.95 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 55                                                                                          | <1.1   | [U]        | 1.1  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 56                                                                                          | <0.94  | [U]        | 0.94 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 60                                                                                          | 10.0   | R          | 1.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 80                                                                                          | <0.81  | [U]        | 0.81 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 79                                                                                          | <0.87  | [U]        | 0.87 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 78                                                                                          | <1.0   | [U]        | 1.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 81                                                                                          | 1.4    | J,R        | 1.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 77                                                                                          | 14.0   |            | 1.2  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 104                                                                                         | <0.62  | [U]        | 0.62 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 96                                                                                          | <0.87  | [U]        | 0.87 | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 103                                                                                         | <1.9   | [U]        | 1.9  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 94                                                                                          | <2.1   | [U]        | 2.1  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 95                                                                                          | 6.4    | M,J        | 2.4  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 100/93/102/98                                                                               | <1.8   | [U]        | 1.8  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 88/91                                                                                       | <2.0   | [U]        | 2.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 84                                                                                          | <2.0   | [U]        | 2.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 89                                                                                          | <2.4   | [U]        | 2.4  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 121                                                                                         | <1.4   | [U]        | 1.4  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 92                                                                                          | 3.7    | [J]        | 2.2  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 113/90/101                                                                                  | 15.0   |            | 1.6  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 83/99                                                                                       | 59.4   |            | 2.0  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 112                                                                                         | <1.3   | [U]        | 1.3  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 109/119/86/97/125/87                                                                        | 7.5    | M,J        | 1.5  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 117/116/85/110/115                                                                          | 34.9   | M          | 1.5  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 82                                                                                          | <2.5   | [U]        | 2.5  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 111                                                                                         | <1.3   | [U]        | 1.3  | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters       | Result | Qualifier* | D.L. | Units     | Extracted | Analyzed  | Batch    |
|---------------------------------|--------|------------|------|-----------|-----------|-----------|----------|
| L2756078-9 PLOT 123 - 3 JARS    |        |            |      |           |           |           |          |
| Sampled By: LdB/JK on 25-MAY-24 |        |            |      |           |           |           |          |
| Matrix: Tissue                  |        |            |      |           |           |           |          |
| All PCB congeners by GC/HRMS    |        |            |      |           |           |           |          |
| PCB 120                         | <1.3   | [U]        | 1.3  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 108/124                     | 1.9    | [J]        | 1.7  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 107                         | 19.9   | M          | 1.6  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 123                         | <1.9   | M,U        | 1.9  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 106                         | <1.8   | [U]        | 1.8  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 118                         | 773    |            | 1.4  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 122                         | <2.2   | [U]        | 2.2  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 114                         | 9.5    | J,R        | 2.0  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 105                         | 157    |            | 1.7  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 127                         | <1.6   | [U]        | 1.6  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 126                         | 27.7   |            | 1.9  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 155                         | <0.32  | [U]        | 0.32 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 152                         | <0.62  | [U]        | 0.62 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 150                         | <0.47  | [U]        | 0.47 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 136                         | 0.77   | J,R        | 0.55 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 145                         | <0.54  | [U]        | 0.54 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 148                         | <0.71  | [U]        | 0.71 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 151/135                     | 11.6   |            | 0.73 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 154                         | <0.56  | [U]        | 0.56 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 144                         | <0.74  | M,U        | 0.74 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 147/149                     | <1.8   | M,U        | 1.8  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 134/143                     | <2.3   | [U]        | 2.3  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 139/140                     | <1.7   | [U]        | 1.7  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 131                         | <2.3   | [U]        | 2.3  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 142                         | <2.3   | [U]        | 2.3  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 132                         | 6.7    | J,R        | 2.1  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 133                         | 11.7   |            | 2.0  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 165                         | <1.5   | [U]        | 1.5  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 146                         | 53.7   |            | 1.6  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 161                         | <1.2   | [U]        | 1.2  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 168/153                     | 602    |            | 1.4  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 141                         | 14.7   |            | 1.7  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 130                         | 28.6   |            | 2.1  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 137/164                     | 10.7   |            | 1.5  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 138/163/129                 | 503    |            | 1.7  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 160                         | <1.4   | [U]        | 1.4  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 158                         | 32.2   |            | 1.1  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 128/166                     | 48.1   | M          | 1.5  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 159                         | <1.2   | [U]        | 1.2  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 162                         | 4.9    | J,R        | 1.3  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 167                         | 87.7   |            | 1.1  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 156/157                     | 179    |            | 1.7  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 169                         | 9.6    | [J]        | 1.3  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 188                         | <0.65  | [U]        | 0.65 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 179                         | 1.40   | J,R        | 0.84 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 184                         | <0.76  | [U]        | 0.76 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 176                         | <0.79  | [U]        | 0.79 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 186                         | <0.86  | [U]        | 0.86 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 178                         | 79.4   |            | 1.1  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 175                         | 2.9    | J,R        | 1.1  | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 187                         | 384    |            | 0.99 | pg/g wwft | 06-JUL-24 | 14-JUL-24 | R5984556 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters                                                                       | Result | Qualifier* | D.L.   | Units    | Extracted | Analyzed  | Batch    |
|-------------------------------------------------------------------------------------------------|--------|------------|--------|----------|-----------|-----------|----------|
| L2756078-9     PLOT 123 - 3 JARS<br>Sampled By:    LdB/JK on 25-MAY-24<br>Matrix:        Tissue |        |            |        |          |           |           |          |
| <b>All PCB congeners by GC/HRMS</b>                                                             |        |            |        |          |           |           |          |
| PCB 182                                                                                         | <0.99  | [U]        | 0.99   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 183                                                                                         | 120    |            | 1.0    | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 185                                                                                         | 3.3    | [J]        | 1.2    | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 174                                                                                         | 7.7    | J,R        | 1.0    | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 177                                                                                         | 185    |            | 1.1    | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 181                                                                                         | <1.1   | [U]        | 1.1    | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 171/173                                                                                     | 23     | M,J,R      | 11     | pg/g wwt | 06-JUL-24 | 19-JUL-24 | R5984556 |
| PCB 172                                                                                         | 111    |            | 1.1    | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 192                                                                                         | <0.88  | [U]        | 0.88   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 180/193                                                                                     | 1200   |            | 0.86   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 191                                                                                         | 5.10   | J,R        | 0.73   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 170                                                                                         | 189    |            | 1.0    | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 190                                                                                         | 140    |            | 0.65   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 189                                                                                         | 46.1   |            | 0.63   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 202                                                                                         | 33.1   |            | 0.28   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 201                                                                                         | 4.36   | [J]        | 0.33   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 204                                                                                         | <0.32  | [U]        | 0.32   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 197                                                                                         | 4.00   | J,R        | 0.35   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 200                                                                                         | <0.35  | M,U        | 0.35   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 198/199                                                                                     | 436    |            | 0.44   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 196                                                                                         | 40.6   |            | 0.42   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 203                                                                                         | 225    |            | 0.41   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 195                                                                                         | 77.0   | J,R        | 7.8    | pg/g wwt | 06-JUL-24 | 19-JUL-24 | R5984556 |
| PCB 194                                                                                         | 532    |            | 0.69   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 205                                                                                         | 32.5   |            | 0.70   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 208                                                                                         | 13     | J,R        | 12     | pg/g wwt | 06-JUL-24 | 19-JUL-24 | R5984556 |
| PCB 207                                                                                         | 8.6    | [J]        | 1.4    | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 206                                                                                         | 122    |            | 1.2    | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| PCB 209                                                                                         | 35.2   |            | 0.20   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 1                                                                          | 36.0   |            | 5-145  | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 3                                                                          | 40.0   |            | 5-145  | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 4                                                                          | 48.0   |            | 5-145  | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 15                                                                         | 46.0   |            | 5-145  | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 19                                                                         | 50.0   |            | 5-145  | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 37                                                                         | 55.0   |            | 5-145  | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 54                                                                         | 53.0   |            | 5-145  | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 81                                                                         | 62.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 77                                                                         | 60.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 104                                                                        | 59.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 123                                                                        | 64.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 118                                                                        | 78.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 114                                                                        | 63.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 105                                                                        | 68.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 126                                                                        | 67.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 155                                                                        | 66.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 167                                                                        | 64.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 156/157                                                                    | 62.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 169                                                                        | 62.0   | R          | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 188                                                                        | 61.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 189                                                                        | 58.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 202                                                                        | 66.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters       | Result | Qualifier* | D.L.   | Units    | Extracted | Analyzed  | Batch    |
|---------------------------------|--------|------------|--------|----------|-----------|-----------|----------|
| L2756078-9 PLOT 123 - 3 JARS    |        |            |        |          |           |           |          |
| Sampled By: LdB/JK on 25-MAY-24 |        |            |        |          |           |           |          |
| Matrix: Tissue                  |        |            |        |          |           |           |          |
| All PCB congeners by GC/HRMS    |        |            |        |          |           |           |          |
| Surrogate: 13C12 PCB 205        | 67.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 208        | 75.0   |            | 10-145 | %        | 06-JUL-24 | 19-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 206        | 71.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 209        | 78.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 28         | 55.0   |            | 5-145  | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 111        | 70.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 178        | 65.0   |            | 10-145 | %        | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total MonoCB                    | <0.48  | [U]        | 0.48   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total DiCB                      | 34.0   | [J]        | 2.1    | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total TriCB                     | 32.3   | [J]        | 0.79   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total TetraCB                   | 130    | [J]        | 0.49   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total PentaCB                   | 1120   | [J]        | 0.62   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total HexaCB                    | 1600   | [J]        | 0.32   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total HeptaCB                   | 2500   | [J]        | 0.63   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total OctaCB                    | 1380   | [J]        | 0.28   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total NonaCB                    | 144    | [J]        | 1.2    | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| DecaCB                          | 35.2   | [J]        | 0.20   | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Total PCB                       | 6980   | [J]        | 1.0    | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Lower Bound PCB TEQ (WHO 2005)  | 3.10   |            |        | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Mid Point PCB TEQ (WHO 2005)    | 3.10   |            |        | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Upper Bound PCB TEQ (WHO 2005)  | 3.10   |            |        | pg/g wwt | 06-JUL-24 | 14-JUL-24 | R5984556 |
| Dioxins and Furans HR 1613B     |        |            |        |          |           |           |          |
| 2,3,7,8-TCDD                    | 0.074  | J,R        | 0.043  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 1,2,3,7,8-PeCDD                 | 0.600  | J,R        | 0.057  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 1,2,3,4,7,8-HxCDD               | 0.360  | J,R        | 0.067  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 1,2,3,6,7,8-HxCDD               | 0.571  | M,J        | 0.068  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 1,2,3,7,8,9-HxCDD               | 0.192  | M,J        | 0.065  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 1,2,3,4,6,7,8-HpCDD             | 1.10   | J,R        | 0.049  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| OCDD                            | 1.12   | [J]        | 0.094  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 2,3,7,8-TCDF                    | 1.93   | M,J        | 0.11   | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 1,2,3,7,8-PeCDF                 | 0.870  | J,R        | 0.094  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 2,3,4,7,8-PeCDF                 | 2.68   | [J]        | 0.080  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 1,2,3,4,7,8-HxCDF               | 0.424  | [J]        | 0.033  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 1,2,3,6,7,8-HxCDF               | 0.430  | J,R        | 0.039  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 2,3,4,6,7,8-HxCDF               | 0.590  | M,J        | 0.034  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 1,2,3,7,8,9-HxCDF               | <0.042 | M,U        | 0.042  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 1,2,3,4,6,7,8-HpCDF             | 0.370  | J,R        | 0.046  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 1,2,3,4,7,8,9-HpCDF             | <0.067 | M,U        | 0.067  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| OCDF                            | <0.14  | M,U        | 0.14   | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total-TCDD                      | 0.076  |            | 0.043  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total TCDD # Homologues         | 1      |            |        |          | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total-PeCDD                     | 0.353  |            | 0.057  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total PeCDD # Homologues        | 2      |            |        |          | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total-HxCDD                     | 0.763  |            | 0.068  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total HxCDD # Homologues        | 2      |            |        |          | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total-HpCDD                     | 0.672  |            | 0.049  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total HpCDD # Homologues        | 1      |            |        |          | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total-TCDF                      | 2.19   |            | 0.11   | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total TCDF # Homologues         | 4      |            |        |          | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total-PeCDF                     | 3.89   |            | 0.094  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total PeCDF # Homologues        | 3      |            |        |          | 06-JUL-24 | 16-JUL-24 | R5984556 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

# ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters               |       | Result | Qualifier* | D.L.   | Units   | Extracted | Analyzed  | Batch    |
|-----------------------------------------|-------|--------|------------|--------|---------|-----------|-----------|----------|
| L2756078-9 PLOT 123 - 3 JARS            |       |        |            |        |         |           |           |          |
| Sampled By: LdB/JK on 25-MAY-24         |       |        |            |        |         |           |           |          |
| Matrix: Tissue                          |       |        |            |        |         |           |           |          |
| Dioxins and Furans HR 1613B             |       |        |            |        |         |           |           |          |
| Total-HxCDF                             | 1.95  |        |            | 0.042  | pg/g ww | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total HxCDF # Homologues                | 5     |        |            |        |         | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total-HpCDF                             | 0.340 |        |            | 0.067  | pg/g ww | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total HpCDF # Homologues                | 2     |        |            |        |         | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Surrogate: 13C12-2,3,7,8-TCDD           | 65.0  |        |            | 25-164 | %       | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,7,8-PeCDD        | 67.0  |        |            | 25-181 | %       | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,4,7,8-HxCDD      | 70.0  |        |            | 32-141 | %       | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,6,7,8-HxCDD      | 73.0  |        |            | 28-130 | %       | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,4,6,7,8-HpCDD    | 77.0  |        |            | 23-140 | %       | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Surrogate: 13C12-OCDD                   | 74.0  |        |            | 17-157 | %       | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Surrogate: 13C12-2,3,7,8-TCDF           | 62.0  |        |            | 24-169 | %       | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,7,8-PeCDF        | 62.0  |        |            | 21-192 | %       | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Surrogate: 13C12-2,3,4,7,8-PeCDF        | 69.0  |        |            | 21-178 | %       | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,4,7,8-HxCDF      | 74.0  |        |            | 26-152 | %       | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,6,7,8-HxCDF      | 63.0  |        |            | 26-123 | %       | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Surrogate: 13C12-2,3,4,6,7,8-HxCDF      | 72.0  |        |            | 29-147 | %       | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,7,8,9-HxCDF      | 79.0  |        |            | 28-136 | %       | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,4,6,7,8-HpCDF    | 78.0  |        |            | 28-143 | %       | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,4,7,8,9-HpCDF    | 77.0  |        |            | 26-138 | %       | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Surrogate: 37Cl4-2,3,7,8-TCDD (Cleanup) | 69.0  |        |            | 31-197 | %       | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Lower Bound PCDD/F TEQ (WHO 2005)       | 1.18  |        |            | 0      | pg/g ww | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Mid Point PCDD/F TEQ (WHO 2005)         | 1.97  |        |            | 0      | pg/g ww | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Upper Bound PCDD/F TEQ (WHO 2005)       | 1.97  |        |            | 0      | pg/g ww | 06-JUL-24 | 16-JUL-24 | R5984556 |
| L2756078-10 PLOT 402 - 6 JARS           |       |        |            |        |         |           |           |          |
| Sampled By: LdB/JK on 25-MAY-24         |       |        |            |        |         |           |           |          |
| Matrix: Tissue                          |       |        |            |        |         |           |           |          |
| Miscellaneous Parameters                |       |        |            |        |         |           |           |          |
| % Moisture                              | 72.7  |        |            | 0.10   | %       | 06-JUL-24 | 08-JUL-24 | R5984098 |
| All PCB congeners by GC/HRMS            |       |        |            |        |         |           |           |          |
| PCB 1                                   | 0.51  | J,R    |            | 0.26   | pg/g ww | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 2                                   | 0.36  | J,R    |            | 0.28   | pg/g ww | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 3                                   | 0.63  | J,R    |            | 0.31   | pg/g ww | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 4                                   | <2.5  | [U]    |            | 2.5    | pg/g ww | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 10                                  | <1.5  | [U]    |            | 1.5    | pg/g ww | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 9                                   | <1.5  | [U]    |            | 1.5    | pg/g ww | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 7                                   | <1.5  | [U]    |            | 1.5    | pg/g ww | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 6                                   | <1.5  | [U]    |            | 1.5    | pg/g ww | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 5                                   | <1.6  | [U]    |            | 1.6    | pg/g ww | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 8                                   | <1.4  | [U]    |            | 1.4    | pg/g ww | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 14                                  | <2.7  | [U]    |            | 2.7    | pg/g ww | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 11                                  | 29.3  |        |            | 2.7    | pg/g ww | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 13/12                               | <2.7  | [U]    |            | 2.7    | pg/g ww | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 15                                  | <2.9  | [U]    |            | 2.9    | pg/g ww | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 19                                  | <0.81 | [U]    |            | 0.81   | pg/g ww | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 30/18                               | 1.20  | J,R    |            | 0.67   | pg/g ww | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 17                                  | <0.79 | M,U    |            | 0.79   | pg/g ww | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 27                                  | <0.58 | [U]    |            | 0.58   | pg/g ww | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 24                                  | <0.66 | [U]    |            | 0.66   | pg/g ww | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 16                                  | <0.90 | [U]    |            | 0.90   | pg/g ww | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 32                                  | <0.53 | M,U    |            | 0.53   | pg/g ww | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 34                                  | <0.75 | [U]    |            | 0.75   | pg/g ww | 06-JUL-24 | 15-JUL-24 | R5984556 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters       | Result | Qualifier* | D.L. | Units    | Extracted | Analyzed  | Batch    |
|---------------------------------|--------|------------|------|----------|-----------|-----------|----------|
| L2756078-10 PLOT 402 - 6 JARS   |        |            |      |          |           |           |          |
| Sampled By: LdB/JK on 25-MAY-24 |        |            |      |          |           |           |          |
| Matrix: Tissue                  |        |            |      |          |           |           |          |
| All PCB congeners by GC/HRMS    |        |            |      |          |           |           |          |
| PCB 23                          | <0.75  | [U]        | 0.75 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 29/26                       | <0.70  | [U]        | 0.70 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 25                          | <0.68  | [U]        | 0.68 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 31                          | 2.03   | [J]        | 0.65 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 28/20                       | 3.85   | [J]        | 0.73 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 21/33                       | 1.10   | J,R        | 0.69 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 22                          | <0.78  | M,U        | 0.78 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 36                          | <0.66  | [U]        | 0.66 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 39                          | <0.80  | [U]        | 0.80 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 38                          | <0.76  | [U]        | 0.76 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 35                          | <0.78  | [U]        | 0.78 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 37                          | <0.81  | [U]        | 0.81 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 54                          | <0.14  | [U]        | 0.14 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 50/53                       | <0.61  | [U]        | 0.61 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 45/51                       | 1.00   | M,J        | 0.64 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 46                          | <0.70  | [U]        | 0.70 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 52                          | 3.00   | J,R        | 0.63 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 73                          | <0.44  | [U]        | 0.44 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 43                          | <0.73  | [U]        | 0.73 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 69/49                       | 1.31   | [J]        | 0.52 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 48                          | <0.61  | [U]        | 0.61 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 44/47/65                    | 4.00   | M,J,R      | 0.54 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 59/62/75                    | <0.45  | [U]        | 0.45 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 42                          | <0.70  | [U]        | 0.70 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 41/71/40                    | <0.62  | [U]        | 0.62 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 64                          | <0.45  | M,U        | 0.45 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 72                          | <0.41  | [U]        | 0.41 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 68                          | <0.41  | [U]        | 0.41 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 57                          | <0.43  | [U]        | 0.43 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 58                          | <0.42  | [U]        | 0.42 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 67                          | <0.36  | [U]        | 0.36 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 63                          | <0.41  | [U]        | 0.41 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 61/70/74/76                 | 5.20   | J,R        | 0.40 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 66                          | 1.50   | M,J,R      | 0.40 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 55                          | <0.46  | [U]        | 0.46 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 56                          | <0.40  | M,U        | 0.40 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 60                          | <0.43  | M,U        | 0.43 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 80                          | <0.34  | [U]        | 0.34 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 79                          | <0.37  | [U]        | 0.37 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 78                          | <0.45  | [U]        | 0.45 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 81                          | <0.46  | [U]        | 0.46 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 77                          | 1.50   | J,R        | 0.51 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 104                         | <0.55  | [U]        | 0.55 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 96                          | <0.84  | [U]        | 0.84 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 103                         | <1.0   | [U]        | 1.0  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 94                          | <1.1   | [U]        | 1.1  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 95                          | 1.3    | M,J,R      | 1.2  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 100/93/102/98               | <0.94  | [U]        | 0.94 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 88/91                       | <1.0   | [U]        | 1.0  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 84                          | <1.1   | [U]        | 1.1  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 89                          | <1.3   | [U]        | 1.3  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.



ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters       | Result | Qualifier* | D.L. | Units    | Extracted | Analyzed  | Batch    |
|---------------------------------|--------|------------|------|----------|-----------|-----------|----------|
| L2756078-10 PLOT 402 - 6 JARS   |        |            |      |          |           |           |          |
| Sampled By: LdB/JK on 25-MAY-24 |        |            |      |          |           |           |          |
| Matrix: Tissue                  |        |            |      |          |           |           |          |
| All PCB congeners by GC/HRMS    |        |            |      |          |           |           |          |
| PCB 121                         | <0.71  | [U]        | 0.71 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 92                          | <1.1   | [U]        | 1.1  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 113/90/101                  | 1.80   | M,J,R      | 0.82 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 83/99                       | 3.3    | [J]        | 1.1  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 112                         | <0.66  | [U]        | 0.66 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 109/119/86/97/125/87        | 1.30   | M,J,R      | 0.79 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 117/116/85/110/115          | 3.80   | M,J,R      | 0.76 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 82                          | <1.3   | [U]        | 1.3  | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 111                         | <0.67  | [U]        | 0.67 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 120                         | <0.68  | [U]        | 0.68 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 108/124                     | <0.64  | [U]        | 0.64 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 107                         | <0.64  | [U]        | 0.64 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 123                         | <0.76  | [U]        | 0.76 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 106                         | <0.71  | [U]        | 0.71 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 118                         | 37.7   |            | 0.62 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 122                         | <0.85  | [U]        | 0.85 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 114                         | 0.76   | J,R        | 0.72 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 105                         | 6.80   | J,R        | 0.71 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 127                         | <0.62  | [U]        | 0.62 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 126                         | 1.70   | J,R        | 0.79 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 155                         | <0.15  | [U]        | 0.15 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 152                         | <0.30  | [U]        | 0.30 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 150                         | <0.22  | [U]        | 0.22 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 136                         | <0.26  | [U]        | 0.26 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 145                         | <0.26  | [U]        | 0.26 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 148                         | <0.34  | [U]        | 0.34 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 151/135                     | 0.44   | J,R        | 0.35 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 154                         | <0.27  | M,U        | 0.27 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 144                         | <0.35  | [U]        | 0.35 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 147/149                     | <0.73  | M,U        | 0.73 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 134/143                     | <0.92  | [U]        | 0.92 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 139/140                     | <0.70  | [U]        | 0.70 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 131                         | <0.92  | [U]        | 0.92 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 142                         | <0.92  | [U]        | 0.92 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 132                         | <0.86  | [U]        | 0.86 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 133                         | <0.81  | [U]        | 0.81 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 165                         | <0.61  | [U]        | 0.61 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 146                         | 1.86   | [J]        | 0.67 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 161                         | <0.50  | [U]        | 0.50 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 168/153                     | 35.9   |            | 0.55 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 141                         | 0.87   | J,R        | 0.70 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 130                         | 1.49   | [J]        | 0.86 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 137/164                     | 0.82   | M,J,R      | 0.61 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 138/163/129                 | 32.4   |            | 0.67 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 160                         | <0.56  | [U]        | 0.56 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 158                         | 1.20   | J,R        | 0.44 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 128/166                     | 3.05   | M,J        | 0.59 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 159                         | <0.49  | [U]        | 0.49 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 162                         | <0.53  | [U]        | 0.53 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 167                         | 5.27   | [J]        | 0.44 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 156/157                     | 10.0   | [J]        | 0.69 | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters       | Result | Qualifier* | D.L.   | Units    | Extracted | Analyzed  | Batch    |
|---------------------------------|--------|------------|--------|----------|-----------|-----------|----------|
| L2756078-10 PLOT 402 - 6 JARS   |        |            |        |          |           |           |          |
| Sampled By: LdB/JK on 25-MAY-24 |        |            |        |          |           |           |          |
| Matrix: Tissue                  |        |            |        |          |           |           |          |
| All PCB congeners by GC/HRMS    |        |            |        |          |           |           |          |
| PCB 169                         | 1.10   | M,J,R      | 0.51   | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 188                         | <0.44  | [U]        | 0.44   | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 179                         | <0.58  | [U]        | 0.58   | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 184                         | <0.53  | [U]        | 0.53   | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 176                         | <0.55  | [U]        | 0.55   | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 186                         | <0.60  | [U]        | 0.60   | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 178                         | 5.20   | J,R        | 0.79   | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 175                         | <0.76  | [U]        | 0.76   | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 187                         | 25.7   |            | 0.69   | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 182                         | <0.69  | [U]        | 0.69   | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 183                         | 4.24   | [J]        | 0.69   | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 185                         | <0.81  | [U]        | 0.81   | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 174                         | 0.91   | J,R        | 0.70   | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 177                         | 12.0   |            | 0.77   | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 181                         | <0.77  | [U]        | 0.77   | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 171/173                     | <6.8   | M,U        | 6.8    | pg/g wwt | 06-JUL-24 | 19-JUL-24 | R5984556 |
| PCB 172                         | 3.20   | J,R        | 0.73   | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 192                         | <0.62  | [U]        | 0.62   | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 180/193                     | 69.7   |            | 0.60   | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 191                         | <0.51  | [U]        | 0.51   | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 170                         | 8.77   | [J]        | 0.72   | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 190                         | 11.0   | R          | 0.45   | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 189                         | 3.10   | J,R        | 0.29   | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 202                         | 3.64   | [J]        | 0.22   | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 201                         | 0.46   | J,R        | 0.27   | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 204                         | <0.26  | [U]        | 0.26   | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 197                         | <0.29  | [U]        | 0.29   | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 200                         | <0.29  | [U]        | 0.29   | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 198/199                     | 50.9   |            | 0.37   | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 196                         | 1.00   | J,R        | 0.35   | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 203                         | 21.0   | R          | 0.33   | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 195                         | 9.9    | J,R        | 6.5    | pg/g wwt | 06-JUL-24 | 19-JUL-24 | R5984556 |
| PCB 194                         | 46.0   |            | 0.33   | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 205                         | 3.30   | J,R        | 0.36   | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 208                         | <8.7   | [U]        | 8.7    | pg/g wwt | 06-JUL-24 | 19-JUL-24 | R5984556 |
| PCB 207                         | <0.70  | M,U        | 0.70   | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 206                         | 21.3   |            | 0.60   | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| PCB 209                         | 7.34   | [J]        | 0.21   | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 1          | 52.0   |            | 5-145  | %        | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 3          | 55.0   |            | 5-145  | %        | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 4          | 69.0   |            | 5-145  | %        | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 15         | 66.0   |            | 5-145  | %        | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 19         | 69.0   |            | 5-145  | %        | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 37         | 64.0   |            | 5-145  | %        | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 54         | 66.0   |            | 5-145  | %        | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 81         | 84.0   |            | 10-145 | %        | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 77         | 83.0   |            | 10-145 | %        | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 104        | 86.0   |            | 10-145 | %        | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 123        | 86.0   |            | 10-145 | %        | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 118        | 98.0   |            | 10-145 | %        | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 114        | 86.0   |            | 10-145 | %        | 06-JUL-24 | 15-JUL-24 | R5984556 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters       | Result  | Qualifier* | D.L.   | Units    | Extracted | Analyzed  | Batch    |
|---------------------------------|---------|------------|--------|----------|-----------|-----------|----------|
| L2756078-10 PLOT 402 - 6 JARS   |         |            |        |          |           |           |          |
| Sampled By: LdB/JK on 25-MAY-24 |         |            |        |          |           |           |          |
| Matrix: Tissue                  |         |            |        |          |           |           |          |
| All PCB congeners by GC/HRMS    |         |            |        |          |           |           |          |
| Surrogate: 13C12 PCB 105        | 91.0    |            | 10-145 | %        | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 126        | 88.0    |            | 10-145 | %        | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 155        | 86.0    |            | 10-145 | %        | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 167        | 87.0    |            | 10-145 | %        | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 156/157    | 81.0    |            | 10-145 | %        | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 169        | 84.0    |            | 10-145 | %        | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 188        | 82.0    |            | 10-145 | %        | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 189        | 78.0    |            | 10-145 | %        | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 202        | 87.0    |            | 10-145 | %        | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 205        | 91.0    |            | 10-145 | %        | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 208        | 79.0    | R          | 10-145 | %        | 06-JUL-24 | 19-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 206        | 103.0   |            | 10-145 | %        | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 209        | 103.0   |            | 10-145 | %        | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 28         | 54.0    |            | 5-145  | %        | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 111        | 71.0    |            | 10-145 | %        | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Surrogate: 13C12 PCB 178        | 70.0    |            | 10-145 | %        | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Total MonoCB                    | 1.50    | [J]        | 0.26   | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Total DiCB                      | 29.3    | [J]        | 1.4    | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Total TriCB                     | 8.18    | [J]        | 0.53   | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Total TetraCB                   | 17.5    | [J]        | 0.14   | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Total PentaCB                   | 58.5    | [J]        | 0.55   | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Total HexaCB                    | 94.4    | [J]        | 0.15   | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Total HeptaCB                   | 144     | [J]        | 0.29   | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Total OctaCB                    | 136     | [J]        | 0.22   | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Total NonaCB                    | 21.3    | [J]        | 0.60   | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| DecaCB                          | 7.34    | [J]        | 0.21   | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Total PCB                       | 518     | [J]        | 1.0    | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Lower Bound PCB TEQ (WHO 2005)  | 0.00159 |            |        | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Mid Point PCB TEQ (WHO 2005)    | 0.205   |            |        | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Upper Bound PCB TEQ (WHO 2005)  | 0.205   |            |        | pg/g wwt | 06-JUL-24 | 15-JUL-24 | R5984556 |
| Dioxins and Furans HR 1613B     |         |            |        |          |           |           |          |
| 2,3,7,8-TCDD                    | 0.057   | M,J        | 0.047  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 1,2,3,7,8-PeCDD                 | 0.120   | M,J,R      | 0.053  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 1,2,3,4,7,8-HxCDD               | 0.064   | M,J,R      | 0.056  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 1,2,3,6,7,8-HxCDD               | 0.154   | [J]        | 0.054  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 1,2,3,7,8,9-HxCDD               | 0.070   | M,J,R      | 0.054  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 1,2,3,4,6,7,8-HpCDD             | 0.33    | [J]        | 0.11   | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| OCDD                            | 0.48    | [J]        | 0.10   | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 2,3,7,8-TCDF                    | 0.220   | [J]        | 0.055  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 1,2,3,7,8-PeCDF                 | 0.140   | M,J,R      | 0.045  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 2,3,4,7,8-PeCDF                 | 0.096   | M,J,R      | 0.035  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 1,2,3,4,7,8-HxCDF               | 0.052   | J,R        | 0.049  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 1,2,3,6,7,8-HxCDF               | 0.090   | [J]        | 0.066  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 2,3,4,6,7,8-HxCDF               | <0.052  | M,U        | 0.052  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 1,2,3,7,8,9-HxCDF               | <0.062  | M,U        | 0.062  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 1,2,3,4,6,7,8-HpCDF             | 0.100   | M,J,R      | 0.028  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| 1,2,3,4,7,8,9-HpCDF             | <0.040  | M,U        | 0.040  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| OCDF                            | 0.082   | M,J        | 0.075  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total-TCDD                      | 0.057   |            | 0.047  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total TCDD # Homologues         | 1       |            |        |          | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total-PeCDD                     | <0.053  | [U]        | 0.053  | pg/g wwt | 06-JUL-24 | 16-JUL-24 | R5984556 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

| Sample Details/Parameters               |                     | Result | Qualifier* | D.L.   | Units   | Extracted | Analyzed  | Batch    |
|-----------------------------------------|---------------------|--------|------------|--------|---------|-----------|-----------|----------|
| L2756078-10                             | PLOT 402 - 6 JARS   |        |            |        |         |           |           |          |
| Sampled By:                             | LdB/JK on 25-MAY-24 |        |            |        |         |           |           |          |
| Matrix:                                 | Tissue              |        |            |        |         |           |           |          |
| <b>Dioxins and Furans HR 1613B</b>      |                     |        |            |        |         |           |           |          |
| Total PeCDD # Homologues                | 0                   |        |            |        |         | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total-HxCDD                             | 0.154               |        |            | 0.056  | pg/g ww | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total HxCDD # Homologues                | 1                   |        |            |        |         | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total-HpCDD                             | 0.33                |        |            | 0.11   | pg/g ww | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total HpCDD # Homologues                | 1                   |        |            |        |         | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total-TCDF                              | 0.382               |        |            | 0.055  | pg/g ww | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total TCDF # Homologues                 | 2                   |        |            |        |         | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total-PeCDF                             | <0.045              | [U]    |            | 0.045  | pg/g ww | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total PeCDF # Homologues                | 0                   |        |            |        |         | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total-HxCDF                             | 0.247               |        |            | 0.066  | pg/g ww | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total HxCDF # Homologues                | 3                   |        |            |        |         | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total-HpCDF                             | <0.040              | [U]    |            | 0.040  | pg/g ww | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Total HpCDF # Homologues                | 0                   |        |            |        |         | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Surrogate: 13C12-2,3,7,8-TCDD           | 81.0                |        |            | 25-164 | %       | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,7,8-PeCDD        | 83.0                |        |            | 25-181 | %       | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,4,7,8-HxCDD      | 90.0                |        |            | 32-141 | %       | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,6,7,8-HxCDD      | 89.0                |        |            | 28-130 | %       | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,4,6,7,8-HpCDD    | 97.0                |        |            | 23-140 | %       | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Surrogate: 13C12-OCDD                   | 95.0                |        |            | 17-157 | %       | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Surrogate: 13C12-2,3,7,8-TCDF           | 77.0                |        |            | 24-169 | %       | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,7,8-PeCDF        | 77.0                |        |            | 21-192 | %       | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Surrogate: 13C12-2,3,4,7,8-PeCDF        | 87.0                |        |            | 21-178 | %       | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,4,7,8-HxCDF      | 92.0                |        |            | 26-152 | %       | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,6,7,8-HxCDF      | 74.0                |        |            | 26-123 | %       | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Surrogate: 13C12-2,3,4,6,7,8-HxCDF      | 92.0                |        |            | 29-147 | %       | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,7,8,9-HxCDF      | 103.0               |        |            | 28-136 | %       | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,4,6,7,8-HpCDF    | 100.0               |        |            | 28-143 | %       | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Surrogate: 13C12-1,2,3,4,7,8,9-HpCDF    | 99.0                |        |            | 26-138 | %       | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Surrogate: 37Cl4-2,3,7,8-TCDD (Cleanup) | 65.0                |        |            | 31-197 | %       | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Lower Bound PCDD/F TEQ (WHO 2005)       | 0.106               |        |            | 0      | pg/g ww | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Mid Point PCDD/F TEQ (WHO 2005)         | 0.285               |        |            | 0      | pg/g ww | 06-JUL-24 | 16-JUL-24 | R5984556 |
| Upper Bound PCDD/F TEQ (WHO 2005)       | 0.291               |        |            | 0      | pg/g ww | 06-JUL-24 | 16-JUL-24 | R5984556 |
|                                         |                     |        |            |        |         |           |           |          |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## Reference Information

### Sample Parameter Qualifier Key:

| Qualifier | Description                                                                                                                                                                                                     |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A         | Method Blank exceeds ALS DQO. Refer to narrative comments for further information.                                                                                                                              |
| G         | QC result did not meet ALS DQO. Refer to narrative comments for further information.                                                                                                                            |
| J,B       | The analyte was detected below the calibrated range but above the EDL, and was detected in the Method Blank at >10% of the sample concentration.                                                                |
| J,R       | The analyte was detected below the calibrated range but above the EDL, and the ion abundance ratio(s) did not meet the acceptance criteria. Value is an estimated maximum.                                      |
| M         | A peak has been manually integrated.                                                                                                                                                                            |
| M,J       | A peak has been manually integrated, and the analyte was detected below the calibrated range but above the EDL.                                                                                                 |
| M,J,B     | A peak has been manually integrated. Target analyte was detected below the calibrated range but above the EDL. Compound was detected in the method blank at >10% of the sample concentration.                   |
| M,J,R     | A peak has been manually integrated, the analyte was detected below the calibrated range but above the EDL, and the ion abundance ratio(s) did not meet the acceptance criteria. Value is an estimated maximum. |
| M,R       | A peak has been manually integrated, and the ion abundance ratio(s) did not meet the acceptance criteria. Value is an estimated maximum.                                                                        |
| M,U       | A peak has been manually integrated, and the analyte was not detected above the EDL.                                                                                                                            |
| R         | The ion abundance ratio(s) did not meet the acceptance criteria. Value is an estimated maximum.                                                                                                                 |
| [J]       | The analyte was detected below the calibrated range but above the EDL.                                                                                                                                          |
| [U]       | The analyte was not detected above the EDL.                                                                                                                                                                     |

### Test Method References:

| ALS Test Code                                                                                                                                                                                                                                                                                                                                                                                                                                       | Matrix | Test Description             | Method Reference**         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------------------------|----------------------------|
| DX-1613B-HRMS-BU                                                                                                                                                                                                                                                                                                                                                                                                                                    | Tissue | Dioxins and Furans HR 1613B  | USEPA 1613B                |
| Samples are extracted by Soxhlet. The extracts are prepared using column chromatography, reduced in volume and analyzed by isotope-dilution GC/HRMS.                                                                                                                                                                                                                                                                                                |        |                              |                            |
| MOISTURE-BU                                                                                                                                                                                                                                                                                                                                                                                                                                         | Tissue | % Moisture                   | CCME 2001 Publication 1310 |
| This method is used to determine the percent moisture in a sample. Samples are homogenized, moisture is removed by heating at 105°C until constant mass is achieved. The residues are measured gravimetrically and the difference in weight between the wet sample and the dried sample is used to determine the moisture content. This percent moisture can be used, in conjunction with analytical results, to report data on a dry weight basis. |        |                              |                            |
| PCB-1668C-O2-HRMS-BU                                                                                                                                                                                                                                                                                                                                                                                                                                | Tissue | All PCB congeners by GC/HRMS | USEPA 1668C                |
| Samples are extracted by liquid/liquid extraction and the targets are isolated via multiple cleanup steps then analyzed by gas chromatography/high-resolution mass spectrometry using an SPB-Octyl column by isotope dilution.                                                                                                                                                                                                                      |        |                              |                            |

\*\* ALS test methods may incorporate modifications from specified reference methods to improve performance.

*The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:*

| Laboratory Definition Code | Laboratory Location                             |
|----------------------------|-------------------------------------------------|
| BU                         | ALS ENVIRONMENTAL - BURLINGTON, ONTARIO, CANADA |

### Chain of Custody Numbers:

### GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg ww - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

## Quality Control Report

Workorder: L2756078

Report Date: 16-AUG-24

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Client: Wildland Management Consultants Ltd.  
50345 Range Road 222  
Leduc County AB T0B 3M2

Contact: Lawrence Brusnyk

| Test                                                                                                                                                                                              | Matrix          | Reference         | Result | Qualifier | Units   | RPD | Limit  | Analyzed  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------------|--------|-----------|---------|-----|--------|-----------|
| <b>DX-1613B-HRMS-BU</b>                                                                                                                                                                           |                 | <b>Tissue</b>     |        |           |         |     |        |           |
| <b>Batch</b>                                                                                                                                                                                      | <b>R5984556</b> |                   |        |           |         |     |        |           |
| <b>WG3789754-5 DUP</b>                                                                                                                                                                            |                 | <b>L2756078-1</b> |        |           |         |     |        |           |
| 2,3,7,8-TCDD                                                                                                                                                                                      |                 | 0.226             | 0.180  |           | pg/g ww | 23  | 50     | 15-JUL-24 |
| 1,2,3,7,8-PeCDD                                                                                                                                                                                   |                 | 1.82              | 1.76   |           | pg/g ww | 3.4 | 50     | 15-JUL-24 |
| 1,2,3,4,7,8-HxCDD                                                                                                                                                                                 |                 | 0.793             | 0.97   |           | pg/g ww | 20  | 50     | 15-JUL-24 |
| 1,2,3,6,7,8-HxCDD                                                                                                                                                                                 |                 | 1.48              | 1.61   |           | pg/g ww | 8.4 | 50     | 15-JUL-24 |
| 1,2,3,7,8,9-HxCDD                                                                                                                                                                                 |                 | 0.660             | 0.855  |           | pg/g ww | 26  | 50     | 15-JUL-24 |
| 1,2,3,4,6,7,8-HpCDD                                                                                                                                                                               |                 | 3.63              | 3.69   |           | pg/g ww | 1.6 | 50     | 15-JUL-24 |
| OCDD                                                                                                                                                                                              |                 | 4.27              | 4.41   |           | pg/g ww | 3.2 | 50     | 15-JUL-24 |
| 2,3,7,8-TCDF                                                                                                                                                                                      |                 | 13.2              | 13.5   |           | pg/g ww | 2.2 | 50     | 15-JUL-24 |
| 1,2,3,7,8-PeCDF                                                                                                                                                                                   |                 | 4.96              | 4.73   |           | pg/g ww | 4.7 | 50     | 15-JUL-24 |
| 2,3,4,7,8-PeCDF                                                                                                                                                                                   |                 | 12.9              | 13.7   |           | pg/g ww | 6.0 | 50     | 15-JUL-24 |
| 1,2,3,4,7,8-HxCDF                                                                                                                                                                                 |                 | 1.84              | 1.88   |           | pg/g ww | 2.2 | 50     | 15-JUL-24 |
| 1,2,3,6,7,8-HxCDF                                                                                                                                                                                 |                 | 2.22              | 2.18   |           | pg/g ww | 1.8 | 50     | 15-JUL-24 |
| 2,3,4,6,7,8-HxCDF                                                                                                                                                                                 |                 | 4.46              | 4.71   |           | pg/g ww | 5.5 | 50     | 15-JUL-24 |
| 1,2,3,7,8,9-HxCDF                                                                                                                                                                                 |                 | <0.075            | 0.210  | G         | pg/g ww | N/A | 50     | 15-JUL-24 |
| 1,2,3,4,6,7,8-HpCDF                                                                                                                                                                               |                 | 2.94              | 3.16   |           | pg/g ww | 7.2 | 50     | 15-JUL-24 |
| 1,2,3,4,7,8,9-HpCDF                                                                                                                                                                               |                 | 0.280             | 0.340  |           | pg/g ww | 19  | 50     | 15-JUL-24 |
| OCDF                                                                                                                                                                                              |                 | 0.64              | 0.850  |           | pg/g ww | 28  | 50     | 15-JUL-24 |
| Total-TCDD                                                                                                                                                                                        |                 | 0.226             | <0.093 | G         | pg/g ww | N/A | 50     | 15-JUL-24 |
| Total-PeCDD                                                                                                                                                                                       |                 | 2.29              | 2.24   |           | pg/g ww | 2.2 | 50     | 15-JUL-24 |
| Total-HxCDD                                                                                                                                                                                       |                 | 3.82              | 4.01   |           | pg/g ww | 4.9 | 50     | 15-JUL-24 |
| Total-HpCDD                                                                                                                                                                                       |                 | 5.27              | 5.46   |           | pg/g ww | 3.5 | 50     | 15-JUL-24 |
| Total-TCDF                                                                                                                                                                                        |                 | 16.7              | 14.2   |           | pg/g ww | 16  | 50     | 15-JUL-24 |
| Total-PeCDF                                                                                                                                                                                       |                 | 27.5              | 28.3   |           | pg/g ww | 2.9 | 50     | 15-JUL-24 |
| Total-HxCDF                                                                                                                                                                                       |                 | 12.1              | 12.8   |           | pg/g ww | 5.6 | 50     | 15-JUL-24 |
| Total-HpCDF                                                                                                                                                                                       |                 | 3.16              | 3.50   |           | pg/g ww | 10  | 50     | 15-JUL-24 |
| COMMENTS: The relative percent difference between the duplicate and its parent sample were above the method control limits for some targets. However, the results are below the calibrated range. |                 |                   |        |           |         |     |        |           |
| <b>WG3789754-2 LCS</b>                                                                                                                                                                            |                 |                   |        |           |         |     |        |           |
| 2,3,7,8-TCDD                                                                                                                                                                                      |                 |                   | 93.0   |           | %       |     | 67-158 | 15-JUL-24 |
| 1,2,3,7,8-PeCDD                                                                                                                                                                                   |                 |                   | 113.0  |           | %       |     | 70-142 | 15-JUL-24 |
| 1,2,3,4,7,8-HxCDD                                                                                                                                                                                 |                 |                   | 103.0  |           | %       |     | 70-164 | 15-JUL-24 |
| 1,2,3,6,7,8-HxCDD                                                                                                                                                                                 |                 |                   | 99.0   |           | %       |     | 76-134 | 15-JUL-24 |
| 1,2,3,7,8,9-HxCDD                                                                                                                                                                                 |                 |                   | 112.0  |           | %       |     | 64-162 | 15-JUL-24 |
| 1,2,3,4,6,7,8-HpCDD                                                                                                                                                                               |                 |                   | 104.0  |           | %       |     | 70-140 | 15-JUL-24 |
| OCDD                                                                                                                                                                                              |                 |                   | 98.0   |           | %       |     | 78-144 | 15-JUL-24 |

## Quality Control Report

Workorder: L2756078

Report Date: 16-AUG-24

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| Test                    | Matrix          | Reference     | Result | Qualifier | Units   | RPD | Limit  | Analyzed  |
|-------------------------|-----------------|---------------|--------|-----------|---------|-----|--------|-----------|
| <b>DX-1613B-HRMS-BU</b> |                 | <b>Tissue</b> |        |           |         |     |        |           |
| <b>Batch</b>            | <b>R5984556</b> |               |        |           |         |     |        |           |
| <b>WG3789754-2</b>      | <b>LCS</b>      |               |        |           |         |     |        |           |
| 2,3,7,8-TCDF            |                 |               | 100.0  |           | %       |     | 75-158 | 15-JUL-24 |
| 1,2,3,7,8-PeCDF         |                 |               | 123.0  |           | %       |     | 80-134 | 15-JUL-24 |
| 2,3,4,7,8-PeCDF         |                 |               | 102.0  |           | %       |     | 68-160 | 15-JUL-24 |
| 1,2,3,4,7,8-HxCDF       |                 |               | 100.0  |           | %       |     | 72-134 | 15-JUL-24 |
| 1,2,3,6,7,8-HxCDF       |                 |               | 107.0  |           | %       |     | 84-130 | 15-JUL-24 |
| 2,3,4,6,7,8-HxCDF       |                 |               | 98.0   |           | %       |     | 70-156 | 15-JUL-24 |
| 1,2,3,7,8,9-HxCDF       |                 |               | 107.0  |           | %       |     | 78-130 | 15-JUL-24 |
| 1,2,3,4,6,7,8-HpCDF     |                 |               | 104.0  |           | %       |     | 82-122 | 15-JUL-24 |
| 1,2,3,4,7,8,9-HpCDF     |                 |               | 118.0  |           | %       |     | 78-138 | 15-JUL-24 |
| OCDF                    |                 |               | 114.0  |           | %       |     | 63-170 | 15-JUL-24 |
| <b>WG3789754-1</b>      | <b>MB</b>       |               |        |           |         |     |        |           |
| 2,3,7,8-TCDD            |                 |               | <0.11  | M,U       | pg/g ww |     | 2      | 15-JUL-24 |
| 1,2,3,7,8-PeCDD         |                 |               | 0.096  | M,J,R     | pg/g ww |     | 10     | 15-JUL-24 |
| 1,2,3,4,7,8-HxCDD       |                 |               | <0.048 | [U]       | pg/g ww |     | 10     | 15-JUL-24 |
| 1,2,3,6,7,8-HxCDD       |                 |               | <0.046 | [U]       | pg/g ww |     | 10     | 15-JUL-24 |
| 1,2,3,7,8,9-HxCDD       |                 |               | <0.046 | [U]       | pg/g ww |     | 10     | 15-JUL-24 |
| 1,2,3,4,6,7,8-HpCDD     |                 |               | 0.080  | M,J,R     | pg/g ww |     | 10     | 15-JUL-24 |
| OCDD                    |                 |               | 0.20   | M,J,R     | pg/g ww |     | 20     | 15-JUL-24 |
| 2,3,7,8-TCDF            |                 |               | 0.087  | J,R       | pg/g ww |     | 2      | 15-JUL-24 |
| 1,2,3,7,8-PeCDF         |                 |               | 0.118  | M,J       | pg/g ww |     | 10     | 15-JUL-24 |
| 2,3,4,7,8-PeCDF         |                 |               | <0.063 | M,U       | pg/g ww |     | 10     | 15-JUL-24 |
| 1,2,3,4,7,8-HxCDF       |                 |               | <0.084 | [U]       | pg/g ww |     | 10     | 15-JUL-24 |
| 1,2,3,6,7,8-HxCDF       |                 |               | <0.086 | [U]       | pg/g ww |     | 10     | 15-JUL-24 |
| 2,3,4,6,7,8-HxCDF       |                 |               | <0.080 | [U]       | pg/g ww |     | 10     | 15-JUL-24 |
| 1,2,3,7,8,9-HxCDF       |                 |               | <0.097 | M,U       | pg/g ww |     | 10     | 15-JUL-24 |
| 1,2,3,4,6,7,8-HpCDF     |                 |               | 0.047  | M,J,R     | pg/g ww |     | 10     | 15-JUL-24 |
| 1,2,3,4,7,8,9-HpCDF     |                 |               | <0.062 | M,U       | pg/g ww |     | 10     | 15-JUL-24 |
| OCDF                    |                 |               | <0.090 | M,U       | pg/g ww |     | 20     | 15-JUL-24 |
| Total-TCDD              |                 |               | <0.11  | [U]       | pg/g ww |     | 0.11   | 15-JUL-24 |
| Total-PeCDD             |                 |               | <0.091 | [U]       | pg/g ww |     | 0.091  | 15-JUL-24 |
| Total-HxCDD             |                 |               | <0.048 | [U]       | pg/g ww |     | 0.048  | 15-JUL-24 |
| Total-HpCDD             |                 |               | <0.042 | [U]       | pg/g ww |     | 0.042  | 15-JUL-24 |
| Total-TCDF              |                 |               | 0.106  | A         | pg/g ww |     | 0.06   | 15-JUL-24 |
| Total-PeCDF             |                 |               | 0.118  | A         | pg/g ww |     | 0.074  | 15-JUL-24 |

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| Test                                                                                                                     | Matrix | Reference | Result | Qualifier | Units   | RPD | Limit  | Analyzed  |
|--------------------------------------------------------------------------------------------------------------------------|--------|-----------|--------|-----------|---------|-----|--------|-----------|
| <b>DX-1613B-HRMS-BU Tissue</b>                                                                                           |        |           |        |           |         |     |        |           |
| <b>Batch R5984556</b>                                                                                                    |        |           |        |           |         |     |        |           |
| <b>WG3789754-1 MB</b>                                                                                                    |        |           |        |           |         |     |        |           |
| Total-HxCDF                                                                                                              |        |           | <0.097 | [U]       | pg/g ww |     | 0.097  | 15-JUL-24 |
| Total-HpCDF                                                                                                              |        |           | <0.062 | [U]       | pg/g ww |     | 0.062  | 15-JUL-24 |
| Surrogate: 13C12-2,3,7,8-TCDD                                                                                            |        |           | 57.0   |           | %       |     | 25-164 | 15-JUL-24 |
| Surrogate: 13C12-1,2,3,7,8-PeCDD                                                                                         |        |           | 56.0   |           | %       |     | 25-181 | 15-JUL-24 |
| Surrogate: 13C12-1,2,3,4,7,8-HxCDD                                                                                       |        |           | 66.0   |           | %       |     | 32-141 | 15-JUL-24 |
| Surrogate: 13C12-1,2,3,6,7,8-HxCDD                                                                                       |        |           | 66.0   |           | %       |     | 28-130 | 15-JUL-24 |
| Surrogate: 13C12-1,2,3,4,6,7,8-HpCDD                                                                                     |        |           | 75.0   |           | %       |     | 23-140 | 15-JUL-24 |
| Surrogate: 13C12-OCDD                                                                                                    |        |           | 73.0   |           | %       |     | 17-157 | 15-JUL-24 |
| Surrogate: 13C12-2,3,7,8-TCDF                                                                                            |        |           | 53.0   |           | %       |     | 24-169 | 15-JUL-24 |
| Surrogate: 13C12-1,2,3,7,8-PeCDF                                                                                         |        |           | 53.0   |           | %       |     | 21-192 | 15-JUL-24 |
| Surrogate: 13C12-2,3,4,7,8-PeCDF                                                                                         |        |           | 58.0   |           | %       |     | 21-178 | 15-JUL-24 |
| Surrogate: 13C12-1,2,3,4,7,8-HxCDF                                                                                       |        |           | 67.0   |           | %       |     | 26-152 | 15-JUL-24 |
| Surrogate: 13C12-1,2,3,6,7,8-HxCDF                                                                                       |        |           | 63.0   |           | %       |     | 26-123 | 15-JUL-24 |
| Surrogate: 13C12-2,3,4,6,7,8-HxCDF                                                                                       |        |           | 67.0   |           | %       |     | 29-147 | 15-JUL-24 |
| Surrogate: 13C12-1,2,3,7,8,9-HxCDF                                                                                       |        |           | 73.0   |           | %       |     | 28-136 | 15-JUL-24 |
| Surrogate: 13C12-1,2,3,4,6,7,8-HpCDF                                                                                     |        |           | 76.0   |           | %       |     | 28-143 | 15-JUL-24 |
| Surrogate: 13C12-1,2,3,4,7,8,9-HpCDF                                                                                     |        |           | 73.0   |           | %       |     | 26-138 | 15-JUL-24 |
| Surrogate: 37Cl4-2,3,7,8-TCDD (Cleanup)                                                                                  |        |           | 67.0   |           | %       |     | 31-197 | 15-JUL-24 |
| COMMENTS: There were low levels of select group totals in the blank that were within the reference method control limit. |        |           |        |           |         |     |        |           |
| <b>WG3789754-4 MB</b>                                                                                                    |        |           |        |           |         |     |        |           |
| 2,3,7,8-TCDD                                                                                                             |        |           | <0.087 | M,U       | pg/g ww |     | 2      | 15-JUL-24 |
| 1,2,3,7,8-PeCDD                                                                                                          |        |           | <0.045 | M,U       | pg/g ww |     | 10     | 15-JUL-24 |
| 1,2,3,4,7,8-HxCDD                                                                                                        |        |           | <0.043 | [U]       | pg/g ww |     | 10     | 15-JUL-24 |
| 1,2,3,6,7,8-HxCDD                                                                                                        |        |           | <0.045 | M,U       | pg/g ww |     | 10     | 15-JUL-24 |
| 1,2,3,7,8,9-HxCDD                                                                                                        |        |           | 0.059  | M,J       | pg/g ww |     | 10     | 15-JUL-24 |
| 1,2,3,4,6,7,8-HpCDD                                                                                                      |        |           | 0.100  | J,R       | pg/g ww |     | 10     | 15-JUL-24 |
| OCDD                                                                                                                     |        |           | 0.16   | J,R       | pg/g ww |     | 20     | 15-JUL-24 |
| 2,3,7,8-TCDF                                                                                                             |        |           | <0.079 | M,U       | pg/g ww |     | 2      | 15-JUL-24 |
| 1,2,3,7,8-PeCDF                                                                                                          |        |           | 0.089  | M,J,R     | pg/g ww |     | 10     | 15-JUL-24 |
| 2,3,4,7,8-PeCDF                                                                                                          |        |           | <0.049 | M,U       | pg/g ww |     | 10     | 15-JUL-24 |
| 1,2,3,4,7,8-HxCDF                                                                                                        |        |           | <0.046 | [U]       | pg/g ww |     | 10     | 15-JUL-24 |
| 1,2,3,6,7,8-HxCDF                                                                                                        |        |           | <0.052 | [U]       | pg/g ww |     | 10     | 15-JUL-24 |
| 2,3,4,6,7,8-HxCDF                                                                                                        |        |           | <0.051 | M,U       | pg/g ww |     | 10     | 15-JUL-24 |
| 1,2,3,7,8,9-HxCDF                                                                                                        |        |           | <0.062 | M,U       | pg/g ww |     | 10     | 15-JUL-24 |



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| Test                                    | Matrix | Reference | Result | Qualifier | Units   | RPD | Limit  | Analyzed  |
|-----------------------------------------|--------|-----------|--------|-----------|---------|-----|--------|-----------|
| <b>DX-1613B-HRMS-BU Tissue</b>          |        |           |        |           |         |     |        |           |
| <b>Batch R5984556</b>                   |        |           |        |           |         |     |        |           |
| <b>WG3789754-4 MB</b>                   |        |           |        |           |         |     |        |           |
| 1,2,3,4,6,7,8-HpCDF                     |        |           | 0.049  | M,J,R     | pg/g ww |     | 10     | 15-JUL-24 |
| 1,2,3,4,7,8,9-HpCDF                     |        |           | <0.031 | [U]       | pg/g ww |     | 10     | 15-JUL-24 |
| OCDF                                    |        |           | <0.11  | [U]       | pg/g ww |     | 20     | 15-JUL-24 |
| Total-TCDD                              |        |           | <0.087 | [U]       | pg/g ww |     | 0.087  | 15-JUL-24 |
| Total-PeCDD                             |        |           | <0.045 | [U]       | pg/g ww |     | 0.045  | 15-JUL-24 |
| Total-HxCDD                             |        |           | 0.059  | A         | pg/g ww |     | 0.045  | 15-JUL-24 |
| Total-HpCDD                             |        |           | <0.060 | [U]       | pg/g ww |     | 0.06   | 15-JUL-24 |
| Total-TCDF                              |        |           | <0.079 | [U]       | pg/g ww |     | 0.079  | 15-JUL-24 |
| Total-PeCDF                             |        |           | <0.062 | [U]       | pg/g ww |     | 0.062  | 15-JUL-24 |
| Total-HxCDF                             |        |           | 0.121  | A         | pg/g ww |     | 0.062  | 15-JUL-24 |
| Total-HpCDF                             |        |           | <0.031 | [U]       | pg/g ww |     | 0.031  | 15-JUL-24 |
| Surrogate: 13C12-2,3,7,8-TCDD           |        |           | 70.0   |           | %       |     | 25-164 | 15-JUL-24 |
| Surrogate: 13C12-1,2,3,7,8-PeCDD        |        |           | 76.0   |           | %       |     | 25-181 | 15-JUL-24 |
| Surrogate: 13C12-1,2,3,4,7,8-HxCDD      |        |           | 86.0   |           | %       |     | 32-141 | 15-JUL-24 |
| Surrogate: 13C12-1,2,3,6,7,8-HxCDD      |        |           | 85.0   |           | %       |     | 28-130 | 15-JUL-24 |
| Surrogate: 13C12-1,2,3,4,6,7,8-HpCDD    |        |           | 94.0   |           | %       |     | 23-140 | 15-JUL-24 |
| Surrogate: 13C12-OCDD                   |        |           | 70.0   |           | %       |     | 17-157 | 15-JUL-24 |
| Surrogate: 13C12-2,3,7,8-TCDF           |        |           | 67.0   |           | %       |     | 24-169 | 15-JUL-24 |
| Surrogate: 13C12-1,2,3,7,8-PeCDF        |        |           | 72.0   |           | %       |     | 21-192 | 15-JUL-24 |
| Surrogate: 13C12-2,3,4,7,8-PeCDF        |        |           | 80.0   |           | %       |     | 21-178 | 15-JUL-24 |
| Surrogate: 13C12-1,2,3,4,7,8-HxCDF      |        |           | 91.0   |           | %       |     | 26-152 | 15-JUL-24 |
| Surrogate: 13C12-1,2,3,6,7,8-HxCDF      |        |           | 85.0   |           | %       |     | 26-123 | 15-JUL-24 |
| Surrogate: 13C12-2,3,4,6,7,8-HxCDF      |        |           | 89.0   |           | %       |     | 29-147 | 15-JUL-24 |
| Surrogate: 13C12-1,2,3,7,8,9-HxCDF      |        |           | 98.0   |           | %       |     | 28-136 | 15-JUL-24 |
| Surrogate: 13C12-1,2,3,4,6,7,8-HpCDF    |        |           | 97.0   |           | %       |     | 28-143 | 15-JUL-24 |
| Surrogate: 13C12-1,2,3,4,7,8,9-HpCDF    |        |           | 92.0   |           | %       |     | 26-138 | 15-JUL-24 |
| Surrogate: 37Cl4-2,3,7,8-TCDD (Cleanup) |        |           | 56.0   |           | %       |     | 31-197 | 15-JUL-24 |

COMMENTS: There were low levels of select group totals in the blank that were within the reference method control limit.

### MOISTURE-BU Tissue

Batch R5984098

WG3789756-3 DUP L2756078-1

|            |      |      |   |     |    |           |
|------------|------|------|---|-----|----|-----------|
| % Moisture | 72.0 | 72.2 | % | 0.2 | 50 | 08-JUL-24 |
|------------|------|------|---|-----|----|-----------|

WG3789756-2 LCS

|            |  |      |   |  |        |           |
|------------|--|------|---|--|--------|-----------|
| % Moisture |  | 99.1 | % |  | 50-150 | 08-JUL-24 |
|------------|--|------|---|--|--------|-----------|

WG3789756-1 MB

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| Test                               | Matrix | Reference | Result | Qualifier | Units   | RPD | Limit  | Analyzed  |
|------------------------------------|--------|-----------|--------|-----------|---------|-----|--------|-----------|
| <b>MOISTURE-BU Tissue</b>          |        |           |        |           |         |     |        |           |
| <b>Batch R5984098</b>              |        |           |        |           |         |     |        |           |
| <b>WG3789756-1 MB</b>              |        |           |        |           |         |     |        |           |
| % Moisture                         |        |           | <0.10  |           | %       |     | 0.1    | 08-JUL-24 |
| <b>PCB-1668C-O2-HRMS-BU Tissue</b> |        |           |        |           |         |     |        |           |
| <b>Batch R5984556</b>              |        |           |        |           |         |     |        |           |
| <b>WG3789754-2 LCS</b>             |        |           |        |           |         |     |        |           |
| PCB 1                              |        |           | 108.0  |           | %       |     | 60-135 | 14-JUL-24 |
| PCB 3                              |        |           | 98.0   |           | %       |     | 60-135 | 14-JUL-24 |
| PCB 4                              |        |           | 105.0  |           | %       |     | 60-135 | 14-JUL-24 |
| PCB 15                             |        |           | 106.0  |           | %       |     | 60-135 | 14-JUL-24 |
| PCB 19                             |        |           | 107.0  |           | %       |     | 60-135 | 14-JUL-24 |
| PCB 37                             |        |           | 114.0  |           | %       |     | 60-135 | 14-JUL-24 |
| PCB 54                             |        |           | 100.0  |           | %       |     | 60-135 | 14-JUL-24 |
| PCB 81                             |        |           | 105.0  |           | %       |     | 60-135 | 14-JUL-24 |
| PCB 77                             |        |           | 104.0  |           | %       |     | 60-135 | 14-JUL-24 |
| PCB 104                            |        |           | 97.0   |           | %       |     | 60-135 | 14-JUL-24 |
| PCB 123                            |        |           | 101.0  |           | %       |     | 60-135 | 14-JUL-24 |
| PCB 118                            |        |           | 99.0   |           | %       |     | 60-135 | 14-JUL-24 |
| PCB 114                            |        |           | 106.0  |           | %       |     | 60-135 | 14-JUL-24 |
| PCB 105                            |        |           | 91.0   |           | %       |     | 60-135 | 14-JUL-24 |
| PCB 126                            |        |           | 98.0   |           | %       |     | 60-135 | 14-JUL-24 |
| PCB 155                            |        |           | 89.0   |           | %       |     | 60-135 | 14-JUL-24 |
| PCB 167                            |        |           | 89.0   |           | %       |     | 60-135 | 14-JUL-24 |
| PCB 156/157                        |        |           | 90.0   |           | %       |     | 60-135 | 14-JUL-24 |
| PCB 169                            |        |           | 90.0   |           | %       |     | 60-135 | 14-JUL-24 |
| PCB 188                            |        |           | 85.0   |           | %       |     | 60-135 | 14-JUL-24 |
| PCB 189                            |        |           | 94.0   |           | %       |     | 60-135 | 14-JUL-24 |
| PCB 202                            |        |           | 96.0   |           | %       |     | 60-135 | 14-JUL-24 |
| PCB 205                            |        |           | 91.0   |           | %       |     | 60-135 | 14-JUL-24 |
| PCB 208                            |        |           | 98.0   |           | %       |     | 60-135 | 14-JUL-24 |
| PCB 206                            |        |           | 92.0   |           | %       |     | 60-135 | 14-JUL-24 |
| PCB 209                            |        |           | 113.0  |           | %       |     | 60-135 | 14-JUL-24 |
| <b>WG3789754-1 MB</b>              |        |           |        |           |         |     |        |           |
| PCB 1                              |        |           | <0.52  | [U]       | pg/g ww |     | 20     | 14-JUL-24 |
| PCB 2                              |        |           | <0.58  | [U]       | pg/g ww |     | 20     | 14-JUL-24 |
| PCB 3                              |        |           | <0.64  | [U]       | pg/g ww |     | 20     | 14-JUL-24 |

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| Test                               | Matrix | Reference | Result | Qualifier | Units   | RPD | Limit | Analyzed  |
|------------------------------------|--------|-----------|--------|-----------|---------|-----|-------|-----------|
| <b>PCB-1668C-O2-HRMS-BU Tissue</b> |        |           |        |           |         |     |       |           |
| <b>Batch R5984556</b>              |        |           |        |           |         |     |       |           |
| <b>WG3789754-1 MB</b>              |        |           |        |           |         |     |       |           |
| PCB 4                              |        |           | <5.6   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 10                             |        |           | <2.7   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 9                              |        |           | <2.8   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 7                              |        |           | <2.9   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 6                              |        |           | <2.8   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 5                              |        |           | <3.3   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 8                              |        |           | <2.5   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 14                             |        |           | <4.1   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 11                             |        |           | 8.1    | M,J,R     | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 13/12                          |        |           | <4.1   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 15                             |        |           | <3.9   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 19                             |        |           | <1.5   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 30/18                          |        |           | <1.2   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 17                             |        |           | <1.4   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 27                             |        |           | <1.1   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 24                             |        |           | <1.2   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 16                             |        |           | <1.6   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 32                             |        |           | <0.99  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 34                             |        |           | <1.4   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 23                             |        |           | <1.3   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 29/26                          |        |           | <1.3   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 25                             |        |           | <1.3   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 31                             |        |           | <1.2   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 28/20                          |        |           | <1.3   | M,U       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 21/33                          |        |           | <1.3   | M,U       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 22                             |        |           | <1.5   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 36                             |        |           | <1.2   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 39                             |        |           | <1.5   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 38                             |        |           | <1.4   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 35                             |        |           | <1.5   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 37                             |        |           | <1.5   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 54                             |        |           | <0.36  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 50/53                          |        |           | <0.82  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |

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| Test                               | Matrix | Reference | Result | Qualifier | Units   | RPD | Limit | Analyzed  |
|------------------------------------|--------|-----------|--------|-----------|---------|-----|-------|-----------|
| <b>PCB-1668C-O2-HRMS-BU Tissue</b> |        |           |        |           |         |     |       |           |
| <b>Batch R5984556</b>              |        |           |        |           |         |     |       |           |
| <b>WG3789754-1 MB</b>              |        |           |        |           |         |     |       |           |
| PCB 45/51                          |        |           | <0.85  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 46                             |        |           | <0.93  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 52                             |        |           | <0.93  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 73                             |        |           | <0.59  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 43                             |        |           | <0.92  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 69/49                          |        |           | <0.72  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 48                             |        |           | <0.84  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 44/47/65                       |        |           | 1.80   | J,R       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 59/62/75                       |        |           | <0.61  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 42                             |        |           | <0.93  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 41/71/40                       |        |           | <0.85  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 64                             |        |           | <0.63  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 72                             |        |           | <0.59  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 68                             |        |           | <0.57  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 57                             |        |           | <0.62  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 58                             |        |           | <0.59  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 67                             |        |           | <0.52  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 63                             |        |           | <0.57  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 61/70/74/76                    |        |           | 0.78   | M,J,R     | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 66                             |        |           | <0.57  | M,U       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 55                             |        |           | <0.63  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 56                             |        |           | <0.57  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 60                             |        |           | <0.61  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 80                             |        |           | <0.50  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 79                             |        |           | <0.53  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 78                             |        |           | <0.66  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 81                             |        |           | <0.66  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 77                             |        |           | <0.75  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 104                            |        |           | <0.93  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 96                             |        |           | <1.2   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 103                            |        |           | <1.5   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 94                             |        |           | <1.7   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 95                             |        |           | <1.9   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |

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| Test                               | Matrix | Reference | Result | Qualifier | Units   | RPD | Limit | Analyzed  |
|------------------------------------|--------|-----------|--------|-----------|---------|-----|-------|-----------|
| <b>PCB-1668C-O2-HRMS-BU Tissue</b> |        |           |        |           |         |     |       |           |
| <b>Batch R5984556</b>              |        |           |        |           |         |     |       |           |
| <b>WG3789754-1 MB</b>              |        |           |        |           |         |     |       |           |
| PCB 100/93/102/98                  |        |           | <1.4   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 88/91                          |        |           | <1.6   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 84                             |        |           | <1.6   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 89                             |        |           | <1.9   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 121                            |        |           | <1.1   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 92                             |        |           | <1.7   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 113/90/101                     |        |           | <1.3   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 83/99                          |        |           | <1.7   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 112                            |        |           | <1.0   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 109/119/86/97/125/87           |        |           | <1.2   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 117/116/85/110/115             |        |           | <1.2   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 82                             |        |           | <2.0   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 111                            |        |           | <1.1   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 120                            |        |           | <1.0   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 108/124                        |        |           | <1.2   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 107                            |        |           | <1.1   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 123                            |        |           | <1.2   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 106                            |        |           | <1.3   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 118                            |        |           | <1.2   | M,U       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 122                            |        |           | <1.6   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 114                            |        |           | <1.3   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 105                            |        |           | <1.2   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 127                            |        |           | <1.2   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 126                            |        |           | <1.5   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 155                            |        |           | <0.37  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 152                            |        |           | <0.73  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 150                            |        |           | <0.56  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 136                            |        |           | <0.66  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 145                            |        |           | <0.64  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 148                            |        |           | <0.88  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 151/135                        |        |           | <1.0   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 154                            |        |           | <0.56  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 144                            |        |           | <0.89  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |

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| Test                               | Matrix | Reference | Result | Qualifier | Units   | RPD | Limit | Analyzed  |
|------------------------------------|--------|-----------|--------|-----------|---------|-----|-------|-----------|
| <b>PCB-1668C-O2-HRMS-BU Tissue</b> |        |           |        |           |         |     |       |           |
| <b>Batch R5984556</b>              |        |           |        |           |         |     |       |           |
| <b>WG3789754-1 MB</b>              |        |           |        |           |         |     |       |           |
| PCB 147/149                        |        |           | <0.85  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 134/143                        |        |           | <1.1   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 139/140                        |        |           | <0.84  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 131                            |        |           | <1.1   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 142                            |        |           | <1.1   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 132                            |        |           | <1.0   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 133                            |        |           | <0.95  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 165                            |        |           | <0.69  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 146                            |        |           | <0.81  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 161                            |        |           | <0.61  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 168/153                        |        |           | <0.66  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 141                            |        |           | <0.85  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 130                            |        |           | <1.0   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 137/164                        |        |           | <0.76  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 138/163/129                    |        |           | <0.84  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 160                            |        |           | <0.68  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 158                            |        |           | <0.55  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 128/166                        |        |           | <0.73  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 159                            |        |           | <0.63  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 162                            |        |           | <0.66  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 167                            |        |           | <0.57  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 156/157                        |        |           | <0.91  | [U]       | pg/g ww |     | 40    | 14-JUL-24 |
| PCB 169                            |        |           | <0.69  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 188                            |        |           | <0.27  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 179                            |        |           | <0.32  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 184                            |        |           | <0.30  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 176                            |        |           | <0.32  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 186                            |        |           | <0.35  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 178                            |        |           | <0.46  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 175                            |        |           | <0.44  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 187                            |        |           | 0.44   | [J]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 182                            |        |           | <0.40  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 183                            |        |           | <0.41  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |

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| Test                               | Matrix | Reference | Result | Qualifier | Units   | RPD | Limit | Analyzed  |
|------------------------------------|--------|-----------|--------|-----------|---------|-----|-------|-----------|
| <b>PCB-1668C-O2-HRMS-BU Tissue</b> |        |           |        |           |         |     |       |           |
| <b>Batch R5984556</b>              |        |           |        |           |         |     |       |           |
| <b>WG3789754-1 MB</b>              |        |           |        |           |         |     |       |           |
| PCB 185                            |        |           | <0.48  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 174                            |        |           | <0.42  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 177                            |        |           | <0.46  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 181                            |        |           | <0.47  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 171/173                        |        |           | <0.46  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 172                            |        |           | <0.45  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 192                            |        |           | <0.38  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 180/193                        |        |           | <0.38  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 191                            |        |           | <0.33  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 170                            |        |           | <0.46  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 190                            |        |           | <0.29  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 189                            |        |           | <0.35  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 202                            |        |           | <0.27  | M,U       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 201                            |        |           | <0.29  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 204                            |        |           | <0.29  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 197                            |        |           | <0.32  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 200                            |        |           | <0.32  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 198/199                        |        |           | <0.43  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 196                            |        |           | <0.43  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 203                            |        |           | <0.40  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 195                            |        |           | <0.48  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 194                            |        |           | <0.46  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 205                            |        |           | <0.42  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 208                            |        |           | <0.60  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 207                            |        |           | <0.63  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 206                            |        |           | <1.1   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 209                            |        |           | <0.27  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| Surrogate: 13C12 PCB 1             |        |           | 39.0   |           | %       |     | 5-145 | 14-JUL-24 |
| Surrogate: 13C12 PCB 3             |        |           | 38.0   |           | %       |     | 5-145 | 14-JUL-24 |
| Surrogate: 13C12 PCB 4             |        |           | 42.0   |           | %       |     | 5-145 | 14-JUL-24 |
| Surrogate: 13C12 PCB 15            |        |           | 53.0   |           | %       |     | 5-145 | 14-JUL-24 |
| Surrogate: 13C12 PCB 19            |        |           | 52.0   |           | %       |     | 5-145 | 14-JUL-24 |
| Surrogate: 13C12 PCB 37            |        |           | 56.0   |           | %       |     | 5-145 | 14-JUL-24 |

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| Test                               | Matrix | Reference | Result | Qualifier | Units   | RPD | Limit  | Analyzed  |
|------------------------------------|--------|-----------|--------|-----------|---------|-----|--------|-----------|
| <b>PCB-1668C-O2-HRMS-BU Tissue</b> |        |           |        |           |         |     |        |           |
| <b>Batch R5984556</b>              |        |           |        |           |         |     |        |           |
| <b>WG3789754-1 MB</b>              |        |           |        |           |         |     |        |           |
| Surrogate: 13C12 PCB 54            |        |           | 55.0   |           | %       |     | 5-145  | 14-JUL-24 |
| Surrogate: 13C12 PCB 81            |        |           | 65.0   |           | %       |     | 10-145 | 14-JUL-24 |
| Surrogate: 13C12 PCB 77            |        |           | 64.0   |           | %       |     | 10-145 | 14-JUL-24 |
| Surrogate: 13C12 PCB 104           |        |           | 60.0   |           | %       |     | 10-145 | 14-JUL-24 |
| Surrogate: 13C12 PCB 123           |        |           | 70.0   |           | %       |     | 10-145 | 14-JUL-24 |
| Surrogate: 13C12 PCB 118           |        |           | 71.0   |           | %       |     | 10-145 | 14-JUL-24 |
| Surrogate: 13C12 PCB 114           |        |           | 66.0   |           | %       |     | 10-145 | 14-JUL-24 |
| Surrogate: 13C12 PCB 105           |        |           | 71.0   |           | %       |     | 10-145 | 14-JUL-24 |
| Surrogate: 13C12 PCB 126           |        |           | 66.0   |           | %       |     | 10-145 | 14-JUL-24 |
| Surrogate: 13C12 PCB 155           |        |           | 70.0   |           | %       |     | 10-145 | 14-JUL-24 |
| Surrogate: 13C12 PCB 167           |        |           | 70.0   |           | %       |     | 10-145 | 14-JUL-24 |
| Surrogate: 13C12 PCB 156/157       |        |           | 67.0   |           | %       |     | 10-145 | 14-JUL-24 |
| Surrogate: 13C12 PCB 169           |        |           | 64.0   |           | %       |     | 10-145 | 14-JUL-24 |
| Surrogate: 13C12 PCB 188           |        |           | 67.0   |           | %       |     | 10-145 | 14-JUL-24 |
| Surrogate: 13C12 PCB 189           |        |           | 69.0   |           | %       |     | 10-145 | 14-JUL-24 |
| Surrogate: 13C12 PCB 202           |        |           | 70.0   |           | %       |     | 10-145 | 14-JUL-24 |
| Surrogate: 13C12 PCB 205           |        |           | 76.0   |           | %       |     | 10-145 | 14-JUL-24 |
| Surrogate: 13C12 PCB 208           |        |           | 78.0   |           | %       |     | 10-145 | 14-JUL-24 |
| Surrogate: 13C12 PCB 206           |        |           | 77.0   |           | %       |     | 10-145 | 14-JUL-24 |
| Surrogate: 13C12 PCB 209           |        |           | 79.0   |           | %       |     | 10-145 | 14-JUL-24 |
| Surrogate: 13C12 PCB 28            |        |           | 67.0   |           | %       |     | 5-145  | 14-JUL-24 |
| Surrogate: 13C12 PCB 111           |        |           | 75.0   |           | %       |     | 10-145 | 14-JUL-24 |
| Surrogate: 13C12 PCB 178           |        |           | 77.0   |           | %       |     | 10-145 | 14-JUL-24 |
| Total MonoCB                       |        |           | <0.52  | [U]       | pg/g ww |     | 40     | 14-JUL-24 |
| Total DiCB                         |        |           | 8.1    | [J]       | pg/g ww |     | 80     | 14-JUL-24 |
| Total TriCB                        |        |           | <0.99  | [U]       | pg/g ww |     | 80     | 14-JUL-24 |
| Total TetraCB                      |        |           | 2.58   | [J]       | pg/g ww |     | 160    | 14-JUL-24 |
| Total PentaCB                      |        |           | <0.93  | [U]       | pg/g ww |     | 160    | 14-JUL-24 |
| Total HexaCB                       |        |           | <0.37  | [U]       | pg/g ww |     | 160    | 14-JUL-24 |
| Total HeptaCB                      |        |           | 0.44   | [J]       | pg/g ww |     | 80     | 14-JUL-24 |
| Total OctaCB                       |        |           | <0.27  | [U]       | pg/g ww |     | 80     | 14-JUL-24 |
| Total NonaCB                       |        |           | <0.60  | [U]       | pg/g ww |     | 40     | 14-JUL-24 |
| DecaCB                             |        |           | <0.27  | [U]       | pg/g ww |     | 40     | 14-JUL-24 |
| Total PCB                          |        |           | 11.1   | [J]       | pg/g ww |     | 320    | 14-JUL-24 |



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| Test                               | Matrix | Reference | Result | Qualifier | Units    | RPD | Limit | Analyzed  |
|------------------------------------|--------|-----------|--------|-----------|----------|-----|-------|-----------|
| <b>PCB-1668C-O2-HRMS-BU Tissue</b> |        |           |        |           |          |     |       |           |
| <b>Batch R5984556</b>              |        |           |        |           |          |     |       |           |
| <b>WG3789754-4 MB</b>              |        |           |        |           |          |     |       |           |
| PCB 1                              |        |           | <1.2   | [U]       | pg/g wwt |     | 20    | 14-JUL-24 |
| PCB 2                              |        |           | <1.3   | [U]       | pg/g wwt |     | 20    | 14-JUL-24 |
| PCB 3                              |        |           | <1.5   | [U]       | pg/g wwt |     | 20    | 14-JUL-24 |
| PCB 4                              |        |           | <10    | [U]       | pg/g wwt |     | 20    | 14-JUL-24 |
| PCB 10                             |        |           | <6.1   | [U]       | pg/g wwt |     | 20    | 14-JUL-24 |
| PCB 9                              |        |           | <6.5   | [U]       | pg/g wwt |     | 20    | 14-JUL-24 |
| PCB 7                              |        |           | <6.6   | [U]       | pg/g wwt |     | 20    | 14-JUL-24 |
| PCB 6                              |        |           | <6.4   | [U]       | pg/g wwt |     | 20    | 14-JUL-24 |
| PCB 5                              |        |           | <7.5   | [U]       | pg/g wwt |     | 20    | 14-JUL-24 |
| PCB 8                              |        |           | <5.6   | [U]       | pg/g wwt |     | 20    | 14-JUL-24 |
| PCB 14                             |        |           | <9.8   | [U]       | pg/g wwt |     | 20    | 14-JUL-24 |
| PCB 11                             |        |           | <9.9   | [U]       | pg/g wwt |     | 20    | 14-JUL-24 |
| PCB 13/12                          |        |           | <9.7   | [U]       | pg/g wwt |     | 20    | 14-JUL-24 |
| PCB 15                             |        |           | <12    | [U]       | pg/g wwt |     | 20    | 14-JUL-24 |
| PCB 19                             |        |           | <4.1   | [U]       | pg/g wwt |     | 20    | 14-JUL-24 |
| PCB 30/18                          |        |           | <1.6   | [U]       | pg/g wwt |     | 20    | 14-JUL-24 |
| PCB 17                             |        |           | <1.8   | [U]       | pg/g wwt |     | 20    | 14-JUL-24 |
| PCB 27                             |        |           | <1.4   | [U]       | pg/g wwt |     | 20    | 14-JUL-24 |
| PCB 24                             |        |           | <1.5   | [U]       | pg/g wwt |     | 20    | 14-JUL-24 |
| PCB 16                             |        |           | <2.0   | [U]       | pg/g wwt |     | 20    | 14-JUL-24 |
| PCB 32                             |        |           | <1.2   | [U]       | pg/g wwt |     | 20    | 14-JUL-24 |
| PCB 34                             |        |           | <2.1   | [U]       | pg/g wwt |     | 20    | 14-JUL-24 |
| PCB 23                             |        |           | <2.0   | [U]       | pg/g wwt |     | 20    | 14-JUL-24 |
| PCB 29/26                          |        |           | <1.9   | [U]       | pg/g wwt |     | 20    | 14-JUL-24 |
| PCB 25                             |        |           | <1.9   | [U]       | pg/g wwt |     | 20    | 14-JUL-24 |
| PCB 31                             |        |           | <1.8   | [U]       | pg/g wwt |     | 20    | 14-JUL-24 |
| PCB 28/20                          |        |           | <1.9   | [U]       | pg/g wwt |     | 20    | 14-JUL-24 |
| PCB 21/33                          |        |           | <1.9   | [U]       | pg/g wwt |     | 20    | 14-JUL-24 |
| PCB 22                             |        |           | <2.2   | M,U       | pg/g wwt |     | 20    | 14-JUL-24 |
| PCB 36                             |        |           | <1.8   | [U]       | pg/g wwt |     | 20    | 14-JUL-24 |
| PCB 39                             |        |           | <2.2   | [U]       | pg/g wwt |     | 20    | 14-JUL-24 |
| PCB 38                             |        |           | <2.1   | [U]       | pg/g wwt |     | 20    | 14-JUL-24 |
| PCB 35                             |        |           | <2.1   | [U]       | pg/g wwt |     | 20    | 14-JUL-24 |

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| Test                               | Matrix | Reference | Result | Qualifier | Units   | RPD | Limit | Analyzed  |
|------------------------------------|--------|-----------|--------|-----------|---------|-----|-------|-----------|
| <b>PCB-1668C-O2-HRMS-BU Tissue</b> |        |           |        |           |         |     |       |           |
| <b>Batch R5984556</b>              |        |           |        |           |         |     |       |           |
| <b>WG3789754-4 MB</b>              |        |           |        |           |         |     |       |           |
| PCB 37                             |        |           | <1.7   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 54                             |        |           | <0.76  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 50/53                          |        |           | <1.1   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 45/51                          |        |           | <1.2   | M,U       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 46                             |        |           | <1.3   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 52                             |        |           | 1.9    | M,J       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 73                             |        |           | <0.82  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 43                             |        |           | <1.3   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 69/49                          |        |           | <1.0   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 48                             |        |           | <1.2   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 44/47/65                       |        |           | 1.9    | [J]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 59/62/75                       |        |           | <0.85  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 42                             |        |           | <1.3   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 41/71/40                       |        |           | <1.2   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 64                             |        |           | <0.88  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 72                             |        |           | <0.72  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 68                             |        |           | <0.69  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 57                             |        |           | <0.75  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 58                             |        |           | <0.71  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 67                             |        |           | <0.63  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 63                             |        |           | <0.69  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 61/70/74/76                    |        |           | <0.70  | M,U       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 66                             |        |           | <0.69  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 55                             |        |           | <0.77  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 56                             |        |           | <0.69  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 60                             |        |           | <0.74  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 80                             |        |           | <0.60  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 79                             |        |           | <0.64  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 78                             |        |           | <0.80  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 81                             |        |           | <0.69  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 77                             |        |           | <0.77  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 104                            |        |           | <1.3   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 96                             |        |           | <1.3   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |

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| Test                               | Matrix | Reference | Result | Qualifier | Units   | RPD | Limit | Analyzed  |
|------------------------------------|--------|-----------|--------|-----------|---------|-----|-------|-----------|
| <b>PCB-1668C-O2-HRMS-BU Tissue</b> |        |           |        |           |         |     |       |           |
| <b>Batch R5984556</b>              |        |           |        |           |         |     |       |           |
| <b>WG3789754-4 MB</b>              |        |           |        |           |         |     |       |           |
| PCB 103                            |        |           | <1.6   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 94                             |        |           | <1.7   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 95                             |        |           | <2.0   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 100/93/102/98                  |        |           | <1.5   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 88/91                          |        |           | <1.6   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 84                             |        |           | <1.7   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 89                             |        |           | <2.0   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 121                            |        |           | <1.1   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 92                             |        |           | <1.8   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 113/90/101                     |        |           | <1.3   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 83/99                          |        |           | <1.7   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 112                            |        |           | <1.1   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 109/119/86/97/125/87           |        |           | <1.3   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 117/116/85/110/115             |        |           | <1.2   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 82                             |        |           | <2.1   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 111                            |        |           | <1.1   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 120                            |        |           | <1.1   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 108/124                        |        |           | <1.2   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 107                            |        |           | <1.2   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 123                            |        |           | <1.3   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 106                            |        |           | <1.3   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 118                            |        |           | <1.1   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 122                            |        |           | <1.6   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 114                            |        |           | <1.2   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 105                            |        |           | <1.1   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 127                            |        |           | <1.3   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 126                            |        |           | <1.4   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 155                            |        |           | <0.46  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 152                            |        |           | <0.71  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 150                            |        |           | <0.55  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 136                            |        |           | <0.65  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 145                            |        |           | <0.63  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 148                            |        |           | <0.85  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |

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| Test                               | Matrix | Reference | Result | Qualifier | Units   | RPD | Limit | Analyzed  |
|------------------------------------|--------|-----------|--------|-----------|---------|-----|-------|-----------|
| <b>PCB-1668C-O2-HRMS-BU Tissue</b> |        |           |        |           |         |     |       |           |
| <b>Batch R5984556</b>              |        |           |        |           |         |     |       |           |
| <b>WG3789754-4 MB</b>              |        |           |        |           |         |     |       |           |
| PCB 151/135                        |        |           | <0.98  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 154                            |        |           | <0.55  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 144                            |        |           | <0.87  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 147/149                        |        |           | <0.66  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 134/143                        |        |           | <0.83  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 139/140                        |        |           | <0.65  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 131                            |        |           | <0.85  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 142                            |        |           | <0.83  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 132                            |        |           | <0.78  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 133                            |        |           | <0.74  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 165                            |        |           | <0.54  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 146                            |        |           | <0.63  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 161                            |        |           | <0.47  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 168/153                        |        |           | 0.56   | M,J       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 141                            |        |           | <0.66  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 130                            |        |           | <0.80  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 137/164                        |        |           | <0.59  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 138/163/129                    |        |           | <0.65  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 160                            |        |           | <0.53  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 158                            |        |           | <0.42  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 128/166                        |        |           | <0.57  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 159                            |        |           | <0.49  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 162                            |        |           | <0.51  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 167                            |        |           | <0.44  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 156/157                        |        |           | <0.64  | M,U       | pg/g ww |     | 40    | 14-JUL-24 |
| PCB 169                            |        |           | <0.49  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 188                            |        |           | <0.30  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 179                            |        |           | <0.36  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 184                            |        |           | <0.34  | M,U       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 176                            |        |           | <0.36  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 186                            |        |           | <0.39  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 178                            |        |           | <0.53  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 175                            |        |           | <0.50  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |

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| Test                               | Matrix | Reference | Result | Qualifier | Units   | RPD | Limit | Analyzed  |
|------------------------------------|--------|-----------|--------|-----------|---------|-----|-------|-----------|
| <b>PCB-1668C-O2-HRMS-BU Tissue</b> |        |           |        |           |         |     |       |           |
| <b>Batch R5984556</b>              |        |           |        |           |         |     |       |           |
| <b>WG3789754-4 MB</b>              |        |           |        |           |         |     |       |           |
| PCB 187                            |        |           | <0.47  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 182                            |        |           | <0.46  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 183                            |        |           | <0.46  | M,U       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 185                            |        |           | <0.54  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 174                            |        |           | <0.48  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 177                            |        |           | <0.52  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 181                            |        |           | <0.54  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 171/173                        |        |           | <0.53  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 172                            |        |           | <0.51  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 192                            |        |           | <0.43  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 180/193                        |        |           | <0.43  | M,U       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 191                            |        |           | <0.37  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 170                            |        |           | <0.53  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 190                            |        |           | <0.33  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 189                            |        |           | <0.33  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 202                            |        |           | <0.29  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 201                            |        |           | <0.32  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 204                            |        |           | <0.31  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 197                            |        |           | <0.35  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 200                            |        |           | <0.35  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 198/199                        |        |           | <0.47  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 196                            |        |           | <0.47  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 203                            |        |           | <0.44  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 195                            |        |           | <0.42  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 194                            |        |           | 0.70   | [J]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 205                            |        |           | <0.38  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 208                            |        |           | <0.64  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 207                            |        |           | <0.67  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 206                            |        |           | <1.2   | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| PCB 209                            |        |           | <0.21  | [U]       | pg/g ww |     | 20    | 14-JUL-24 |
| Surrogate: 13C12 PCB 1             |        |           | 16.0   |           | %       |     | 5-145 | 14-JUL-24 |
| Surrogate: 13C12 PCB 3             |        |           | 20.0   |           | %       |     | 5-145 | 14-JUL-24 |
| Surrogate: 13C12 PCB 4             |        |           | 21.0   |           | %       |     | 5-145 | 14-JUL-24 |

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| Test                               | Matrix | Reference | Result | Qualifier | Units   | RPD | Limit  | Analyzed  |
|------------------------------------|--------|-----------|--------|-----------|---------|-----|--------|-----------|
| <b>PCB-1668C-O2-HRMS-BU Tissue</b> |        |           |        |           |         |     |        |           |
| <b>Batch R5984556</b>              |        |           |        |           |         |     |        |           |
| <b>WG3789754-4 MB</b>              |        |           |        |           |         |     |        |           |
| Surrogate: 13C12 PCB 15            |        |           | 24.0   |           | %       |     | 5-145  | 14-JUL-24 |
| Surrogate: 13C12 PCB 19            |        |           | 21.0   | R         | %       |     | 5-145  | 14-JUL-24 |
| Surrogate: 13C12 PCB 37            |        |           | 36.0   |           | %       |     | 5-145  | 14-JUL-24 |
| Surrogate: 13C12 PCB 54            |        |           | 25.0   |           | %       |     | 5-145  | 14-JUL-24 |
| Surrogate: 13C12 PCB 81            |        |           | 55.0   |           | %       |     | 10-145 | 14-JUL-24 |
| Surrogate: 13C12 PCB 77            |        |           | 55.0   |           | %       |     | 10-145 | 14-JUL-24 |
| Surrogate: 13C12 PCB 104           |        |           | 38.0   |           | %       |     | 10-145 | 14-JUL-24 |
| Surrogate: 13C12 PCB 123           |        |           | 62.0   |           | %       |     | 10-145 | 14-JUL-24 |
| Surrogate: 13C12 PCB 118           |        |           | 66.0   |           | %       |     | 10-145 | 14-JUL-24 |
| Surrogate: 13C12 PCB 114           |        |           | 63.0   |           | %       |     | 10-145 | 14-JUL-24 |
| Surrogate: 13C12 PCB 105           |        |           | 68.0   |           | %       |     | 10-145 | 14-JUL-24 |
| Surrogate: 13C12 PCB 126           |        |           | 65.0   |           | %       |     | 10-145 | 14-JUL-24 |
| Surrogate: 13C12 PCB 155           |        |           | 52.0   |           | %       |     | 10-145 | 14-JUL-24 |
| Surrogate: 13C12 PCB 167           |        |           | 66.0   |           | %       |     | 10-145 | 14-JUL-24 |
| Surrogate: 13C12 PCB 156/157       |        |           | 67.0   |           | %       |     | 10-145 | 14-JUL-24 |
| Surrogate: 13C12 PCB 169           |        |           | 68.0   |           | %       |     | 10-145 | 14-JUL-24 |
| Surrogate: 13C12 PCB 188           |        |           | 62.0   |           | %       |     | 10-145 | 14-JUL-24 |
| Surrogate: 13C12 PCB 189           |        |           | 66.0   |           | %       |     | 10-145 | 14-JUL-24 |
| Surrogate: 13C12 PCB 202           |        |           | 70.0   |           | %       |     | 10-145 | 14-JUL-24 |
| Surrogate: 13C12 PCB 205           |        |           | 72.0   |           | %       |     | 10-145 | 14-JUL-24 |
| Surrogate: 13C12 PCB 208           |        |           | 76.0   |           | %       |     | 10-145 | 14-JUL-24 |
| Surrogate: 13C12 PCB 206           |        |           | 75.0   |           | %       |     | 10-145 | 14-JUL-24 |
| Surrogate: 13C12 PCB 209           |        |           | 81.0   |           | %       |     | 10-145 | 14-JUL-24 |
| Surrogate: 13C12 PCB 28            |        |           | 33.0   |           | %       |     | 5-145  | 14-JUL-24 |
| Surrogate: 13C12 PCB 111           |        |           | 52.0   |           | %       |     | 10-145 | 14-JUL-24 |
| Surrogate: 13C12 PCB 178           |        |           | 53.0   |           | %       |     | 10-145 | 14-JUL-24 |
| Total MonoCB                       |        |           | <1.2   | [U]       | pg/g ww |     | 40     | 14-JUL-24 |
| Total DiCB                         |        |           | <5.6   | [U]       | pg/g ww |     | 80     | 14-JUL-24 |
| Total TriCB                        |        |           | <1.2   | [U]       | pg/g ww |     | 80     | 14-JUL-24 |
| Total TetraCB                      |        |           | 3.73   | [J]       | pg/g ww |     | 160    | 14-JUL-24 |
| Total PentaCB                      |        |           | <1.1   | [U]       | pg/g ww |     | 160    | 14-JUL-24 |
| Total HexaCB                       |        |           | 0.56   | [J]       | pg/g ww |     | 160    | 14-JUL-24 |
| Total HeptaCB                      |        |           | <0.30  | [U]       | pg/g ww |     | 80     | 14-JUL-24 |
| Total OctaCB                       |        |           | 0.70   | [J]       | pg/g ww |     | 80     | 14-JUL-24 |



## Quality Control Report

Workorder: L2756078

Report Date: 16-AUG-24

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| Test                        | Matrix | Reference | Result | Qualifier | Units   | RPD | Limit | Analyzed  |
|-----------------------------|--------|-----------|--------|-----------|---------|-----|-------|-----------|
| PCB-1668C-O2-HRMS-BU Tissue |        |           |        |           |         |     |       |           |
| Batch R5984556              |        |           |        |           |         |     |       |           |
| WG3789754-4 MB              |        |           |        |           |         |     |       |           |
| Total NonaCB                |        |           | <0.64  | [U]       | pg/g ww |     | 40    | 14-JUL-24 |
| DecaCB                      |        |           | <0.21  | [U]       | pg/g ww |     | 40    | 14-JUL-24 |
| Total PCB                   |        |           | 5.0    | [J]       | pg/g ww |     | 320   | 14-JUL-24 |

# Quality Control Report

Workorder: L2756078

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## Legend:

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|       |                                             |
|-------|---------------------------------------------|
| Limit | ALS Control Limit (Data Quality Objectives) |
| DUP   | Duplicate                                   |
| RPD   | Relative Percent Difference                 |
| N/A   | Not Available                               |
| LCS   | Laboratory Control Sample                   |
| SRM   | Standard Reference Material                 |
| MS    | Matrix Spike                                |
| MSD   | Matrix Spike Duplicate                      |
| ADE   | Average Desorption Efficiency               |
| MB    | Method Blank                                |
| IRM   | Internal Reference Material                 |
| CRM   | Certified Reference Material                |
| CCV   | Continuing Calibration Verification         |
| CVS   | Calibration Verification Standard           |
| LCSD  | Laboratory Control Sample Duplicate         |

## Sample Parameter Qualifier Definitions:

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| Qualifier | Description                                                                                                                                                                                                     |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A         | Method Blank exceeds ALS DQO. Refer to narrative comments for further information.                                                                                                                              |
| G         | QC result did not meet ALS DQO. Refer to narrative comments for further information.                                                                                                                            |
| J,R       | The analyte was detected below the calibrated range but above the EDL, and the ion abundance ratio(s) did not meet the acceptance criteria. Value is an estimated maximum.                                      |
| M,J       | A peak has been manually integrated, and the analyte was detected below the calibrated range but above the EDL.                                                                                                 |
| M,J,R     | A peak has been manually integrated, the analyte was detected below the calibrated range but above the EDL, and the ion abundance ratio(s) did not meet the acceptance criteria. Value is an estimated maximum. |
| M,U       | A peak has been manually integrated, and the analyte was not detected above the EDL.                                                                                                                            |
| R         | The ion abundance ratio(s) did not meet the acceptance criteria. Value is an estimated maximum.                                                                                                                 |
| [J]       | The analyte was detected below the calibrated range but above the EDL.                                                                                                                                          |
| [U]       | The analyte was not detected above the EDL.                                                                                                                                                                     |

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## Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

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The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.





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Phone: 905-331-3111, FAX: 905-331-4567

## Certificate of Analysis

**ALS Project Contact:** Dana Brown  
**ALS Project ID:** 24593  
**ALS WO#:** L2756078  
**Date of Report:** 16-Aug-24  
**Date of Sample Receipt:** 5-Jun-24

**Client Name:** Wildland Management Consultants Ltd.  
**Client Address:** 50345 Range Road 222  
Leduc County, AB T0B 3M2  
Canada  
**Client Contact:** Lawrence Brusnyk  
**Client Project ID:** SHTC 11-086

### COMMENTS: Parent and Alkylated PAH by SIM GC/LRMS

All results have been reported on a dry weight basis.

The relative percent difference (RPD) between the duplicate and its parent sample was above the method control limit for 4 of 78 targets.  
All other targets replicate within limits where detected.

For the reagent-only method blank WG3789954-4, the more volatile components were not recovered. The corn-oil-containing blank and the samples have not been similarly impacted.

For the corn-oil-containing method blank WG3789954-1, there was a non-target peak in the time range of C2-Fluoranthenes/Pyrenes. This result has been reported as an estimated maximum possible concentration (EMPC). This target has not been detected in the samples.

Certified by:

A handwritten signature in black ink, appearing to read 'Steve Kennedy'.

Steve Kennedy  
Technical Supervisor

Results in this certificate relate only to the samples as submitted to the laboratory.

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| ALS Life Sciences                     |                            |        |                           |   |                 |     |             |     |                     |
|---------------------------------------|----------------------------|--------|---------------------------|---|-----------------|-----|-------------|-----|---------------------|
| Sample Analysis Summary Report        |                            |        |                           |   |                 |     |             |     |                     |
| Sample Name                           | Method Blank<br>(Corn Oil) |        | Method Blank<br>(Reagent) |   | PLOT 4 - 6 JARS |     | Duplicate   |     | PLOT 11 - 4<br>JARS |
|                                       |                            |        |                           |   |                 |     |             |     | PLOT 70 - 3<br>JARS |
| ALS Sample ID                         | WG3789954-1                |        | WG3789954-4               |   | L2756078-1      |     | WG3789954-5 |     | L2756078-2          |
| Sample Size                           | 3.00                       |        | 3.00                      |   | 2.85            |     | 2.81        |     | 2.92                |
| Sample units                          | g                          |        | g                         |   | g               |     | g           |     | g                   |
| Moisture Content                      | n/a                        |        | n/a                       |   | 72.0%           |     | 72.0%       |     | 70.9%               |
| Matrix                                | QC                         |        | QC                        |   | Tissue          |     | QC          |     | Tissue              |
| Sampling Date                         | n/a                        |        | n/a                       |   | 25-May-24       |     | n/a         |     | 25-May-24           |
| Extraction Date                       | 26-Jul-24                  |        | 26-Jul-24                 |   | 26-Jul-24       |     | 26-Jul-24   |     | 26-Jul-24           |
| Target Analytes                       | ng/g                       |        | ng/g                      |   | ng/g            |     | ng/g        |     | ng/g                |
| Naphthalene                           | 3.47                       |        | NQ                        |   | 11.3            | B   | 10.9        | B   | 42.0                |
| Quinoline                             | <1.33                      | U      | NQ                        |   | 4.55            |     | 2.33        | M   | 6.11                |
| 2-Methylnaphthalene                   | 1.48                       |        | NQ                        |   | 8.45            | B   | 8.51        | B   | 25.9                |
| 1-Methylnaphthalene                   | <1.33                      | U      | NQ                        |   | 4.57            |     | 4.54        |     | 13.40               |
| 1,2-Dimethylnaphthalene               | <1.33                      | U      | NQ                        |   | 2.42            | M   | 2.42        | M   | 3.02                |
| 2,6-Dimethylnaphthalene               | 2.36                       | M      | NQ                        |   | 2.29            | B   | 2.19        | B   | 4.26                |
| 2,3,5-Trimethylnaphthalene            | <1.33                      | U      | NQ                        |   | 1.70            |     | 1.85        | M   | 2.65                |
| 2,3,6-Trimethylnaphthalene            | <1.33                      | U      | NQ                        |   | <1.4            | U   | <1.42       | U   | 1.52                |
| 1,4,6,7-Tetramethylnaphthalene        | <1.33                      | U      | NQ                        |   | <1.4            | U   | <1.42       | U   | 1.65                |
| C1-Naphthalenes                       | 2.08                       | M      | NQ                        |   | 11.0            | M,B | 11.3        | M   | 32.7                |
| C2-Naphthalenes                       | 2.21                       | M      | NQ                        |   | 10.7            | M   | 11.1        | M,B | 21.0                |
| C3-Naphthalenes                       | 2.70                       | M      | NQ                        |   | 6.62            | M,B | 6.99        | M,B | 11.0                |
| C4-Naphthalenes                       | 3.15                       | M      | NQ                        |   | 4.72            | M,B | 7.43        | M,B | 9.88                |
| Biphenyl                              | <1.33                      | U      | NQ                        |   | 1.66            |     | 1.54        |     | 1.80                |
| Acenaphthylene                        | <1.33                      | U      | NQ                        |   | <1.4            | U   | <1.42       | U   | <1.37               |
| Acenaphthene                          | <1.33                      | U      | NQ                        |   | <1.4            | U   | <1.42       | U   | <1.37               |
| C1-Biphenyl                           | 2.10                       | M      | NQ                        |   | 5.77            | M,B | 5.15        | M,B | 6.74                |
| C2-Biphenyl                           | <1.33                      | U      | NQ                        |   | <1.4            | U   | <1.42       | U   | 1.97                |
| C1-Acenaphthenes                      | <1.33                      | U      | NQ                        |   | <1.4            | U   | <1.42       | U   | 1.46                |
| Fluorene                              | <1.33                      | U      | <1.33                     | U | 3.21            |     | 2.85        |     | 4.01                |
| 2-Methylfluorene                      | <1.33                      | U      | <1.33                     | U | <1.4            | U   | <1.42       | U   | <1.37               |
| 1,7-Dimethylfluorene                  | <1.33                      | U      | <1.33                     | U | <1.4            | U   | <1.42       | U   | <1.37               |
| Phenanthrene                          | <1.33                      | U      | 4.49                      |   | 15.4            | B   | 12.6        | B   | 14.4                |
| 3-Methylphenanthrene                  | <1.33                      | U      | <1.33                     | U | 2.67            | M   | 2.18        | M   | 2.24                |
| 2-Methylphenanthrene                  | <1.33                      | U      | <1.33                     | U | 3.94            | M   | 2.96        | M   | 2.91                |
| 9/4-Methylphenanthrene                | <1.33                      | U      | <1.33                     | U | <1.4            | U   | <1.42       | U   | <1.37               |
| 1-Methylphenanthrene                  | <1.33                      | U      | <1.33                     | U | 1.47            | M   | <1.42       | U   | <1.37               |
| 2-Methylanthracene                    | <1.33                      | U      | <1.33                     | U | <1.4            | U   | <1.42       | U   | <1.37               |
| 1,7-Dimethylphenanthrene              | <1.33                      | U      | <1.33                     | U | <1.4            | U   | <1.42       | U   | 1.47                |
| 1,8-Dimethylphenanthrene              | <1.33                      | U      | <1.33                     | U | <1.4            | U   | <1.42       | U   | <1.37               |
| 2,6-Dimethylphenanthrene              | <1.33                      | U      | <1.33                     | U | 4.01            | M   | 2.32        | M   | 2.13                |
| 3,6-Dimethylphenanthrene              | <1.33                      | U      | <1.33                     | U | 5.52            | M   | 4.58        | M   | 3.05                |
| Retene                                | <1.33                      | U      | <1.33                     | U | 8.91            |     | 7.36        |     | 4.91                |
| 1,2,6-Trimethylphenanthrene           | <1.33                      | U      | <1.33                     | U | <1.4            | U   | <1.42       | U   | <1.37               |
| Dibenzothiophene                      | <1.33                      | U      | <1.33                     | U | <1.4            | U   | <1.42       | U   | <1.37               |
| 2/3-Methylbenzothiophene              | <1.33                      | U      | <1.33                     | U | <1.4            | U   | <1.42       | U   | <1.37               |
| 4,6-Dimethyldibenzothiophene          | <1.33                      | U      | <1.33                     | U | 28.3            |     | 8.69        |     | 29.5                |
| C1-Phenanthrenes/Anthracenes          | 2.19                       | M      | 2.43                      | M | 10.6            | M,B | 7.78        | M,B | 7.37                |
| C2-Phenanthrenes/Anthracenes          | <1.33                      | U      | <1.33                     | U | 4.99            | M   | 4.60        | M   | 3.24                |
| C3-Phenanthrenes/Anthracenes          | <1.33                      | U      | <1.33                     | U | 1.74            | M   | 1.58        | M   | 1.41                |
| C4-Phenanthrenes/Anthracenes          | <1.33                      | U      | <1.33                     | U | 3.54            | M   | 2.99        | M   | 2.06                |
| C1-Fluorenes                          | <1.33                      | U      | <1.33                     | U | 3.38            | M   | 2.25        | M   | 2.95                |
| C2-Fluorenes                          | <1.33                      | U      | <1.33                     | U | <1.4            | U   | <1.42       | U   | <1.37               |
| C3-Fluorenes                          | <1.33                      | U      | <1.33                     | U | <1.4            | U   | <1.42       | U   | <1.37               |
| C1-Dibenzothiophenes                  | <1.33                      | U      | <1.33                     | U | 1.85            | M   | 1.83        | M   | 2.26                |
| C2-Dibenzothiophenes                  | <1.33                      | U      | <1.33                     | U | 33.5            | M   | 11.7        | M   | 30.2                |
| C3-Dibenzothiophenes                  | <1.33                      | U      | <1.33                     | U | 2.68            | M   | 2.37        | M   | <1.37               |
| C4-Dibenzothiophenes                  | <1.33                      | U      | <1.33                     | U | <1.4            | U   | <1.42       | U   | <1.37               |
| Anthracene                            | <1.33                      | U      | <1.33                     | U | <1.4            | U   | <1.42       | U   | <1.37               |
| Fluoranthene                          | <1.33                      | U      | 1.48                      |   | 6.29            | B   | 4.31        | B   | 3.47                |
| 1-Methylfluoranthene                  | <1.33                      | U      | <1.33                     | U | <1.4            | U   | <1.42       | U   | <1.37               |
| 3-Methylfluoranthene/Benzo(a)fluorene | <1.33                      | U      | <1.33                     | U | <1.4            | U   | <1.42       | U   | <1.37               |
| Pyrene                                | <1.33                      | U      | <1.33                     | U | 3.13            |     | 2.29        |     | 1.91                |
| C1-Fluoranthenes/Pyrenes              | <1.33                      | U      | <1.33                     | U | 2.17            | M   | 1.84        | M   | <1.37               |
| C2-Fluoranthenes/Pyrenes              | 1.95                       | M,EMPC | <1.33                     | U | <1.4            | U   | <1.42       | U   | <1.37               |
| C3-Fluoranthenes/Pyrenes              | <1.33                      | U      | <1.33                     | U | <1.4            | U   | <1.42       | U   | <1.37               |
| C4-Fluoranthenes/Pyrenes              | <1.33                      | U      | <1.33                     | U | <1.4            | U   | <1.42       | U   | <1.37               |

| ALS Life Sciences               |                                                                                                                        |   |                           |   |                 |   |             |   |                     |                     |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------|---|---------------------------|---|-----------------|---|-------------|---|---------------------|---------------------|
| Sample Analysis Summary Report  |                                                                                                                        |   |                           |   |                 |   |             |   |                     |                     |
| Sample Name                     | Method Blank<br>(Corn Oil)                                                                                             |   | Method Blank<br>(Reagent) |   | PLOT 4 - 6 JARS |   | Duplicate   |   | PLOT 11 - 4<br>JARS | PLOT 70 - 3<br>JARS |
| ALS Sample ID                   | WG3789954-1                                                                                                            |   | WG3789954-4               |   | L2756078-1      |   | WG3789954-5 |   | L2756078-2          | L2756078-3          |
| Benzo(a)anthracene              | <1.33                                                                                                                  | U | <1.33                     | U | <1.4            | U | <1.42       | U | <1.37               | U                   |
| 7,12-Dimethylbenz(a)anthracene  | <1.33                                                                                                                  | U | <1.33                     | U | <1.4            | U | <1.42       | U | <1.37               | U                   |
| C1-Benz(a)anthracenes/Chrysenes | <1.33                                                                                                                  | U | <1.33                     | U | <1.4            | U | <1.42       | U | <1.37               | U                   |
| C2-Benz(a)anthracenes/Chrysenes | <1.33                                                                                                                  | U | <1.33                     | U | <1.4            | U | <1.42       | U | <1.37               | U                   |
| C3-Benz(a)anthracenes/Chrysenes | <1.33                                                                                                                  | U | <1.33                     | U | <1.4            | U | <1.42       | U | <1.37               | U                   |
| C4-Benz(a)anthracenes/Chrysenes | <1.33                                                                                                                  | U | <1.33                     | U | <1.4            | U | <1.42       | U | <1.37               | U                   |
| Chrysene/Triphenylene           | <1.33                                                                                                                  | U | <1.33                     | U | 5.23            |   | 4.55        |   | 3.40                | 3.06                |
| 1-Methylchrysene                | <1.33                                                                                                                  | U | <1.33                     | U | <1.4            | U | <1.42       | U | <1.37               | U                   |
| 5/6-Methylchrysene              | <1.33                                                                                                                  | U | <1.33                     | U | <1.4            | U | <1.42       | U | <1.37               | U                   |
| 3,11/5,9-Dimethylchrysene       | <1.33                                                                                                                  | U | <1.33                     | U | <1.4            | U | <1.42       | U | <1.37               | U                   |
| Benzo(b)flouranthene            | <1.33                                                                                                                  | U | <1.33                     | U | 2.22            |   | 1.84        | M | 1.58                | 1.81                |
| Benzo(k)fluoranthene            | <1.33                                                                                                                  | U | <1.33                     | U | 2.86            |   | 2.24        | M | 4.01                | 3.32                |
| Benzo(e)Pyrene                  | <1.33                                                                                                                  | U | <1.33                     | U | <1.4            | U | <1.42       | U | <1.37               | U                   |
| C1-Benzofluoranthenes/BAPs      | <1.33                                                                                                                  | U | <1.33                     | U | <1.4            | U | <1.42       | U | <1.37               | U                   |
| C2-Benzofluoranthenes/BAPs      | <1.33                                                                                                                  | U | <1.33                     | U | <1.4            | U | <1.42       | U | <1.37               | U                   |
| Benzo(a)pyrene                  | <1.33                                                                                                                  | U | <1.33                     | U | <1.4            | U | <1.42       | U | <1.37               | U                   |
| 7-Methylbenzo(a)pyrene          | <1.33                                                                                                                  | U | <1.33                     | U | <1.4            | U | <1.42       | U | <1.37               | U                   |
| Perylene                        | <1.33                                                                                                                  | U | <1.33                     | U | <1.4            | U | <1.42       | U | <1.37               | U                   |
| Indeno(1,2,3-cd)pyrene          | <1.33                                                                                                                  | U | <1.33                     | U | <1.4            | U | <1.42       | U | <1.37               | U                   |
| Dibenz(ah)anthracene            | <1.33                                                                                                                  | U | <1.33                     | U | <1.4            | U | <1.42       | U | <1.37               | U                   |
| Benzo(ghi)perylene              | <1.33                                                                                                                  | U | <1.33                     | U | <1.4            | U | <1.42       | U | <1.37               | U                   |
| Extraction Standards            | % Rec                                                                                                                  |   | % Rec                     |   | % Rec           |   | % Rec       |   | % Rec               | % Rec               |
| d8-Naphthalene(ES)              | 72.8                                                                                                                   |   | 1.7                       |   | 69.4            |   | 60.3        |   | 51.3                | 41.6                |
| d10-2-Methylnaphthalene(ES)     | 82.6                                                                                                                   |   | 5.6                       |   | 82.3            |   | 75.6        |   | 67.5                | 53.6                |
| d8-Acenapthylene(ES)            | 86.1                                                                                                                   |   | 9.6                       |   | 88.6            |   | 84.2        |   | 78.0                | 64.7                |
| d10-Phenanthrene(ES)            | 65.6                                                                                                                   |   | 48.6                      |   | 67.1            |   | 63.5        |   | 63.7                | 57.5                |
| d10-Anthracene(ES)              | 65.1                                                                                                                   |   | 47.4                      |   | 60.7            |   | 59.1        |   | 58.1                | 50.3                |
| d10-Fluoranthene(ES)            | 61.6                                                                                                                   |   | 62.1                      |   | 71.2            |   | 61.7        |   | 67.6                | 63.1                |
| d12-Benzo(a)anthracene(ES)      | 73.7                                                                                                                   |   | 63.8                      |   | 69.6            |   | 71.2        |   | 67.5                | 66.5                |
| d12-Chrysene(ES)                | 73.9                                                                                                                   |   | 73.4                      |   | 73.7            |   | 77.4        |   | 73.6                | 70.6                |
| d12-Benzo(b)fluoranthene(ES)    | 65.2                                                                                                                   |   | 50.1                      |   | 60.3            |   | 63.3        |   | 60.3                | 52.5                |
| d12-Benzo(k)fluoranthene(ES)    | 73.1                                                                                                                   |   | 57.4                      |   | 68.1            |   | 71.5        |   | 68.0                | 61.5                |
| d12-Benzo(a)pyrene(ES)          | 78.4                                                                                                                   |   | 52.4                      |   | 71.3            |   | 69.6        |   | 72.6                | 70.9                |
| d12-Perylene(ES)                | 71.6                                                                                                                   |   | 61.9                      |   | 63.3            |   | 64.5        |   | 62.0                | 61.6                |
| d12-Indeno(1,2,3-cd)pyrene(ES)  | 69.8                                                                                                                   |   | 58.2                      |   | 65.4            |   | 55.4        |   | 64.2                | 62.9                |
| d14-Dibenz(ah)anthracene(ES)    | 54.7                                                                                                                   |   | 44.3                      |   | 52.0            |   | 43.0        |   | 51.0                | 48.4                |
| U                               | Indicates that this compound was not detected above the LOD.                                                           |   |                           |   |                 |   |             |   |                     |                     |
| M                               | Indicates that a peak has been manually integrated.                                                                    |   |                           |   |                 |   |             |   |                     |                     |
| B                               | Indicates that this compound was detected in the method blank at greater than 10% of the sample value.                 |   |                           |   |                 |   |             |   |                     |                     |
| EMPC                            | This result is an Estimated Maximum Possible Concentration (EMPC) due to interference or positive id criterion failure |   |                           |   |                 |   |             |   |                     |                     |
| NQ                              | Indicates that this compound was not quantitable.                                                                      |   |                           |   |                 |   |             |   |                     |                     |

| ALS Life Sciences                     |                      |     |                      |     |                      |     |                      |        |                     |
|---------------------------------------|----------------------|-----|----------------------|-----|----------------------|-----|----------------------|--------|---------------------|
| Sample Analysis Summary Report        |                      |     |                      |     |                      |     |                      |        |                     |
| Sample Name                           | PLOT 71 - 5<br>JARS  |     | PLOT 109 - 5<br>JARS |     | PLOT 110 - 4<br>JARS |     | PLOT 114 - 4<br>JARS |        | PLOT 117 - 1<br>JAR |
|                                       | PLOT 123 - 3<br>JARS |     |                      |     |                      |     |                      |        |                     |
| ALS Sample ID                         | L2756078-4           |     | L2756078-5           |     | L2756078-6           |     | L2756078-7           |        | L2756078-8          |
| Sample Size                           | 2.76                 |     | 2.90                 |     | 2.91                 |     | 2.89                 |        | 0.32                |
| Sample units                          | g                    |     | g                    |     | g                    |     | g                    |        | g                   |
| Moisture Content                      | 72.6%                |     | 71.9%                |     | 71.5%                |     | 71.5%                |        | 70.0%               |
| Matrix                                | Tissue               |     | Tissue               |     | Tissue               |     | Tissue               |        | Tissue              |
| Sampling Date                         | 25-May-24            |     | 25-May-24            |     | 25-May-24            |     | 25-May-24            |        | 25-May-24           |
| Extraction Date                       | 26-Jul-24            |     | 26-Jul-24            |     | 26-Jul-24            |     | 26-Jul-24            |        | 26-Jul-24           |
| Target Analytes                       | ng/g                 |     | ng/g                 |     | ng/g                 |     | ng/g                 |        | ng/g                |
| Naphthalene                           | 63.8                 | B   | 21.6                 | B   | 14.6                 | B   | 62.9                 | B      | 84.2                |
| Quinoline                             | <1.45                | U   | 11.10                |     | 5.39                 |     | 4.68                 |        | 15.1                |
| 2-Methylnaphthalene                   | 42.7                 | B   | 17.5                 | B   | 10.9                 | B   | 32.6                 |        | 39.1                |
| 1-Methylnaphthalene                   | 21.9                 |     | 9.03                 |     | 5.65                 |     | 15.9                 |        | 18.3                |
| 1,2-Dimethylnaphthalene               | 3.51                 | M   | 3.06                 | M   | 2.30                 | M   | 3.21                 | <12.35 | U                   |
| 2,6-Dimethylnaphthalene               | 5.10                 | B   | 3.42                 | B   | 2.31                 | B   | 4.58                 | B      | <12.35              |
| 2,3,5-Trimethylnaphthalene            | 3.05                 |     | 2.65                 |     | 1.63                 |     | 2.94                 |        | <12.35              |
| 2,3,6-Trimethylnaphthalene            | <1.45                | U   | <1.38                | U   | <1.37                | U   | <1.39                | U      | <12.35              |
| 1,4,6,7-Tetramethylnaphthalene        | <1.45                | U   | 2.22                 | M   | <1.37                | U   | 3.06                 | M      | <12.35              |
| C1-Naphthalenes                       | 54.0                 | M   | 22.6                 | M   | 14.4                 | M   | 40.4                 | M,B    | 47.7                |
| C2-Naphthalenes                       | 27.8                 | M,B | 15.0                 | M,B | 11.0                 | M,B | 19.9                 | M,B    | 43.1                |
| C3-Naphthalenes                       | 10.2                 | M,B | 12.1                 | M,B | 5.71                 | M,B | 11.2                 | M,B    | 32.0                |
| C4-Naphthalenes                       | 8.6                  | M,B | 10.3                 | M,B | 6.23                 | M,B | 7.87                 | M,B    | 22.7                |
| Biphenyl                              | 2.33                 |     | 1.83                 |     | 1.57                 |     | 2.36                 |        | <12.35              |
| Acenaphthylene                        | <1.45                | U   | <1.38                | U   | <1.37                | U   | <1.39                | U      | <12.35              |
| Acenaphthene                          | <1.45                | U   | <1.38                | U   | <1.37                | U   | <1.39                | U      | <12.35              |
| C1-Biphenyl                           | 6.87                 | M,B | 5.94                 | M,B | 4.31                 | M,B | 6.14                 | M,B    | 26.4                |
| C2-Biphenyl                           | <1.45                | U   | <1.38                | U   | <1.37                | U   | <1.39                | U      | <12.35              |
| C1-Acenaphthenes                      | 1.68                 |     | 1.51                 |     | <1.37                | U   | 1.72                 |        | <12.35              |
| Fluorene                              | 4.76                 |     | 3.68                 |     | 2.69                 |     | 4.78                 |        | 13.60               |
| 2-Methylfluorene                      | 5.43                 | M   | 3.99                 | M   | 3.14                 | M   | 4.95                 | M      | 18.50               |
| 1,7-Dimethylfluorene                  | <1.45                | U   | <1.38                | U   | <1.37                | U   | <1.39                | U      | <12.35              |
| Phenanthrene                          | 17.2                 | B   | 14.8                 | B   | 11.4                 | B   | 16.4                 | B      | 60.4                |
| 3-Methylphenanthrene                  | 2.95                 |     | 2.50                 | M   | 2.02                 |     | 2.80                 |        | <12.35              |
| 2-Methylphenanthrene                  | 4.07                 | M   | 3.98                 | M   | 3.43                 | M   | 4.06                 | M      | 13.30               |
| 9/4-Methylphenanthrene                | <1.45                | U   | <1.38                | U   | <1.37                | U   | <1.39                | U      | <12.35              |
| 1-Methylphenanthrene                  | 2.07                 | M   | 1.39                 | M   | <1.37                | U   | 1.63                 | M      | <12.35              |
| 2-Methylanthracene                    | <1.45                | U   | <1.38                | U   | <1.37                | U   | <1.39                | U      | <12.35              |
| 1,7-Dimethylphenanthrene              | <1.45                | U   | <1.38                | U   | <1.37                | U   | <1.39                | U      | <12.35              |
| 1,8-Dimethylphenanthrene              | <1.45                | U   | <1.38                | U   | <1.37                | U   | <1.39                | U      | <12.35              |
| 2,6-Dimethylphenanthrene              | 2.84                 | M   | 3.11                 | M   | 2.42                 | M   | 3.24                 | M      | <12.35              |
| 3,6-Dimethylphenanthrene              | 3.14                 | M   | 2.73                 | M   | 3.96                 | M   | 3.98                 | M      | <12.35              |
| Retene                                | 5.14                 |     | 3.91                 |     | 5.49                 |     | 6.28                 |        | <12.35              |
| 1,2,6-Trimethylphenanthrene           | <1.45                | U   | <1.38                | U   | <1.37                | U   | <1.39                | U      | <12.35              |
| Dibenzothiophene                      | 1.66                 |     | <1.38                | U   | <1.37                | U   | <1.39                | U      | <12.35              |
| 2/3-Methylbenzothiophene              | <1.45                | U   | <1.38                | U   | <1.37                | U   | <1.39                | U      | <12.35              |
| 4,6-Dimethyldibenzothiophene          | 1.95                 |     | 46.5                 |     | 31.4                 |     | 16.7                 |        | <12.35              |
| C1-Phenanthrenes/Anthracenes          | 10.0                 | M,B | 8.52                 | M,B | 7.66                 | M,B | 9.81                 | M,B    | 32.8                |
| C2-Phenanthrenes/Anthracenes          | 3.53                 | M   | 2.63                 | M   | 3.74                 | M   | 2.48                 | M      | <12.35              |
| C3-Phenanthrenes/Anthracenes          | <1.45                | U   | <1.38                | U   | 1.65                 | M   | <1.39                | U      | <12.35              |
| C4-Phenanthrenes/Anthracenes          | 2.05                 | M   | 1.73                 | M   | 1.83                 |     | 2.09                 |        | <12.35              |
| C1-Fluorenes                          | 3.11                 | M   | 2.64                 | M   | 2.00                 | M   | 3.18                 | M      | <12.35              |
| C2-Fluorenes                          | <1.45                | U   | <1.38                | U   | <1.37                | U   | <1.39                | U      | <12.35              |
| C3-Fluorenes                          | <1.45                | U   | <1.38                | U   | <1.37                | U   | <1.39                | U      | <12.35              |
| C1-Dibenzothiophenes                  | 1.93                 | M   | 2.55                 | M   | 2.11                 | M   | 1.83                 | M      | <12.35              |
| C2-Dibenzothiophenes                  | 3.19                 | M   | 57.0                 | M   | 37.0                 | M   | 17.8                 | M      | <12.35              |
| C3-Dibenzothiophenes                  | <1.45                | U   | <1.38                | U   | <1.37                | U   | <1.39                | U      | <12.35              |
| C4-Dibenzothiophenes                  | <1.45                | U   | <1.38                | U   | <1.37                | U   | <1.39                | U      | <12.35              |
| Anthracene                            | <1.45                | U   | <1.38                | U   | <1.37                | U   | <1.39                | U      | <12.35              |
| Fluoranthene                          | 4.53                 | B   | 3.76                 | B   | 3.82                 | B   | 4.72                 | B      | 20.20               |
| 1-Methylfluoranthene                  | <1.45                | U   | <1.38                | U   | <1.37                | U   | <1.39                | U      | <12.35              |
| 3-Methylfluoranthene/Benzo(a)fluorene | <1.45                | U   | <1.38                | U   | <1.37                | U   | <1.39                | U      | <12.35              |
| Pyrene                                | 2.76                 |     | 2.35                 |     | 1.87                 |     | 2.60                 |        | 12.7                |
| C1-Fluoranthenes/Pyrenes              | 1.57                 | M   | <1.38                | U   | <1.37                | U   | 1.95                 | M      | <12.35              |
| C2-Fluoranthenes/Pyrenes              | <1.45                | U   | <1.38                | U   | <1.37                | U   | <1.39                | U      | <12.35              |
| C3-Fluoranthenes/Pyrenes              | <1.45                | U   | <1.38                | U   | <1.37                | U   | <1.39                | U      | <12.35              |
| C4-Fluoranthenes/Pyrenes              | <1.45                | U   | <1.38                | U   | <1.37                | U   | <1.39                | U      | <12.35              |



| ALS Life Sciences               |                                                              |   |                      |   |                      |   |                      |   |                     |   |                      |   |
|---------------------------------|--------------------------------------------------------------|---|----------------------|---|----------------------|---|----------------------|---|---------------------|---|----------------------|---|
| Sample Analysis Summary Report  |                                                              |   |                      |   |                      |   |                      |   |                     |   |                      |   |
| Sample Name                     | PLOT 71 - 5<br>JARS                                          |   | PLOT 109 - 5<br>JARS |   | PLOT 110 - 4<br>JARS |   | PLOT 114 - 4<br>JARS |   | PLOT 117 - 1<br>JAR |   | PLOT 123 - 3<br>JARS |   |
| ALS Sample ID                   | L2756078-4                                                   |   | L2756078-5           |   | L2756078-6           |   | L2756078-7           |   | L2756078-8          |   | L2756078-9           |   |
| Benzo(a)anthracene              | <1.45                                                        | U | <1.38                | U | <1.37                | U | <1.39                | U | <12.35              | U | <1.43                | U |
| 7,12-Dimethylbenz(a)anthracene  | <1.45                                                        | U | <1.38                | U | <1.37                | U | <1.39                | U | <12.35              | U | <1.43                | U |
| C1-Benz(a)anthracenes/Chrysenes | <1.45                                                        | U | <1.38                | U | <1.37                | U | <1.39                | U | <12.35              | U | <1.43                | U |
| C2-Benz(a)anthracenes/Chrysenes | <1.45                                                        | U | <1.38                | U | <1.37                | U | <1.39                | U | <12.35              | U | <1.43                | U |
| C3-Benz(a)anthracenes/Chrysenes | <1.45                                                        | U | <1.38                | U | <1.37                | U | <1.39                | U | <12.35              | U | <1.43                | U |
| C4-Benz(a)anthracenes/Chrysenes | <1.45                                                        | U | <1.38                | U | <1.37                | U | <1.39                | U | <12.35              | U | <1.43                | U |
| Chrysene/Triphenylene           | 3.65                                                         |   | 2.39                 |   | 4.38                 |   | 3.63                 |   | <12.35              | U | 6.23                 |   |
| 1-Methylchrysene                | <1.45                                                        | U | <1.38                | U | <1.37                | U | <1.39                | U | <12.35              | U | <1.43                | U |
| 5/6-Methylchrysene              | <1.45                                                        | U | <1.38                | U | <1.37                | U | <1.39                | U | <12.35              | U | <1.43                | U |
| 3,11/5,9-Dimethylchrysene       | <1.45                                                        | U | <1.38                | U | <1.37                | U | <1.39                | U | <12.35              | U | <1.43                | U |
| Benzo(b)flouranthene            | <1.45                                                        | U | 2.18                 |   | 2.22                 | M | 2.04                 |   | <12.35              | U | 2.72                 | M |
| Benzo(k)flouranthene            | <1.45                                                        | U | 4.56                 |   | 3.67                 |   | 3.81                 | M | <12.35              | U | 3.30                 | M |
| Benzo(e)Pyrene                  | <1.45                                                        | U | <1.38                | U | <1.37                | U | <1.39                | U | <12.35              | U | <1.43                | U |
| C1-Benzofluoranthenes/BAPs      | <1.45                                                        | U | <1.38                | U | <1.37                | U | <1.39                | U | <12.35              | U | <1.43                | U |
| C2-Benzofluoranthenes/BAPs      | <1.45                                                        | U | <1.38                | U | <1.37                | U | <1.39                | U | <12.35              | U | <1.43                | U |
| Benzo(a)pyrene                  | <1.45                                                        | U | <1.38                | U | <1.37                | U | <1.39                | U | <12.35              | U | <1.43                | U |
| 7-Methylbenzo(a)pyrene          | <1.45                                                        | U | <1.38                | U | <1.37                | U | <1.39                | U | <12.35              | U | <1.43                | U |
| Perylene                        | <1.45                                                        | U | <1.38                | U | <1.37                | U | <1.39                | U | <12.35              | U | <1.43                | U |
| Indeno(1,2,3-cd)pyrene          | <1.45                                                        | U | <1.38                | U | <1.37                | U | <1.39                | U | <12.35              | U | <1.43                | U |
| Dibenz(ah)anthracene            | <1.45                                                        | U | <1.38                | U | <1.37                | U | <1.39                | U | <12.35              | U | <1.43                | U |
| Benzo(ghi)perylene              | <1.45                                                        | U | <1.38                | U | <1.37                | U | <1.39                | U | <12.35              | U | <1.43                | U |
| Extraction Standards            | % Rec                                                        |   | % Rec                |   | % Rec                |   | % Rec                |   | % Rec               |   | % Rec                |   |
| d8-Naphthalene(ES)              | 47.9                                                         |   | 50.0                 |   | 67.3                 |   | 66.0                 |   | 45.5                |   | 45.6                 |   |
| d10-2-Methylnaphthalene(ES)     | 62.9                                                         |   | 63.8                 |   | 81.1                 |   | 81.6                 |   | 63.0                |   | 60.1                 |   |
| d8-Acenaphthylene(ES)           | 71.1                                                         |   | 74.2                 |   | 88.7                 |   | 87.5                 |   | 77.2                |   | 75.5                 |   |
| d10-Phenanthrene(ES)            | 55.8                                                         |   | 67.7                 |   | 67.3                 |   | 71.0                 |   | 64.9                |   | 65.4                 |   |
| d10-Anthracene(ES)              | 50.9                                                         |   | 62.0                 |   | 63.8                 |   | 65.0                 |   | 61.2                |   | 60.2                 |   |
| d10-Fluoranthene(ES)            | 55.3                                                         |   | 76.7                 |   | 69.3                 |   | 71.7                 |   | 60.6                |   | 70.2                 |   |
| d12-Benzo(a)anthracene(ES)      | 58.9                                                         |   | 65.8                 |   | 66.8                 |   | 62.7                 |   | 60.6                |   | 68.3                 |   |
| d12-Chrysene(ES)                | 65.3                                                         |   | 69.0                 |   | 69.1                 |   | 65.8                 |   | 68.6                |   | 67.5                 |   |
| d12-Benzo(b)fluoranthene(ES)    | 57.5                                                         |   | 57.4                 |   | 55.6                 |   | 52.2                 |   | 48.0                |   | 59.6                 |   |
| d12-Benzo(k)fluoranthene(ES)    | 64.1                                                         |   | 70.3                 |   | 62.1                 |   | 62.8                 |   | 58.0                |   | 70.7                 |   |
| d12-Benzo(a)pyrene(ES)          | 62.7                                                         |   | 67.5                 |   | 68.9                 |   | 65.5                 |   | 54.2                |   | 70.9                 |   |
| d12-Perylene(ES)                | 56.1                                                         |   | 67.2                 |   | 64.6                 |   | 63.8                 |   | 60.4                |   | 63.2                 |   |
| d12-Indeno(1,2,3-cd)pyrene(ES)  | 54.0                                                         |   | 66.5                 |   | 62.8                 |   | 69.1                 |   | 62.5                |   | 63.2                 |   |
| d14-Dibenz(ah)anthracene(ES)    | 40.9                                                         |   | 52.3                 |   | 49.2                 |   | 54.6                 |   | 49.2                |   | 49.3                 |   |
| U                               | Indicates that this compound was not detected above the LOD. |   |                      |   |                      |   |                      |   |                     |   |                      |   |
| M                               | Indicates that a peak has been manually integrated.          |   |                      |   |                      |   |                      |   |                     |   |                      |   |

| ALS Life Sciences                     |                      |                              |  |
|---------------------------------------|----------------------|------------------------------|--|
| Sample Analysis Summary Report        |                      |                              |  |
| Sample Name                           | PLOT 402 - 6<br>JARS | Laboratory<br>Control Sample |  |
| ALS Sample ID                         | L2756078-10          | WG3789954-2                  |  |
| Sample Size                           | 2.78                 | 1                            |  |
| Sample units                          | g                    | n/a                          |  |
| Moisture Content                      | 72.7%                | n/a                          |  |
| Matrix                                | Tissue               | QC                           |  |
| Sampling Date                         | 25-May-24            | n/a                          |  |
| Extraction Date                       | 26-Jul-24            | 26-Jul-24                    |  |
| Target Analytes                       | ng/g                 | % Rec                        |  |
| Naphthalene                           | 15.6 B               | 99                           |  |
| Quinoline                             | <1.44 U              |                              |  |
| 2-Methylnaphthalene                   | 10.0 B               | 84                           |  |
| 1-Methylnaphthalene                   | 4.73                 | 84                           |  |
| 1,2-Dimethylnaphthalene               | 2.84 M               |                              |  |
| 2,6-Dimethylnaphthalene               | 2.48 B               | 85                           |  |
| 2,3,5-Trimethylnaphthalene            | <1.44 U              | 85                           |  |
| 2,3,6-Trimethylnaphthalene            | <1.44 U              |                              |  |
| 1,4,6,7-Tetramethylnaphthalene        | <1.44 U              |                              |  |
| C1-Naphthalenes                       | 12.6 M,B             |                              |  |
| C2-Naphthalenes                       | 11.7 M,B             |                              |  |
| C3-Naphthalenes                       | 5.99 M,B             |                              |  |
| C4-Naphthalenes                       | 3.74 M,B             |                              |  |
| Biphenyl                              | 1.71                 | 81                           |  |
| Acenaphthylene                        | <1.44 U              | 76                           |  |
| Acenaphthene                          | <1.44 U              | 72                           |  |
| C1-Biphenyl                           | 4.74 M,B             |                              |  |
| C2-Biphenyl                           | 1.13 M               |                              |  |
| C1-Acenaphthenes                      | <1.44 U              |                              |  |
| Fluorene                              | 3.45                 | 88                           |  |
| 2-Methylfluorene                      | 4.64 M               |                              |  |
| 1,7-Dimethylfluorene                  | <1.44 U              |                              |  |
| Phenanthrene                          | 12 B                 | 86                           |  |
| 3-Methylphenanthrene                  | 2.48 M               |                              |  |
| 2-Methylphenanthrene                  | 3.22 M               |                              |  |
| 9/4-Methylphenanthrene                | <1.44 U              |                              |  |
| 1-Methylphenanthrene                  | 1.47 M               | 89                           |  |
| 2-Methylanthracene                    | <1.44 U              |                              |  |
| 1,7-Dimethylphenanthrene              | <1.44 U              |                              |  |
| 1,8-Dimethylphenanthrene              | <1.44 U              |                              |  |
| 2,6-Dimethylphenanthrene              | 2.25 M               |                              |  |
| 3,6-Dimethylphenanthrene              | 3.12 M               |                              |  |
| Retene                                | 4.99                 |                              |  |
| 1,2,6-Trimethylphenanthrene           | <1.44 U              |                              |  |
| Dibenzothiophene                      | <1.44 U              | 70                           |  |
| 2/3-Methylbenzothiophene              | <1.44 U              |                              |  |
| 4,6-Dimethyldibenzothiophene          | <1.44 U              |                              |  |
| C1-Phenanthrenes/Anthracenes          | 9.34 M,B             |                              |  |
| C2-Phenanthrenes/Anthracenes          | 2.61 M               |                              |  |
| C3-Phenanthrenes/Anthracenes          | <1.44 U              |                              |  |
| C4-Phenanthrenes/Anthracenes          | 1.66                 |                              |  |
| C1-Fluorenes                          | 2.62 M               |                              |  |
| C2-Fluorenes                          | <1.44 U              |                              |  |
| C3-Fluorenes                          | <1.44 U              |                              |  |
| C1-Dibenzothiophenes                  | 1.52 M               |                              |  |
| C2-Dibenzothiophenes                  | <1.44 U              |                              |  |
| C3-Dibenzothiophenes                  | 2.09 M               |                              |  |
| C4-Dibenzothiophenes                  | <1.44 U              |                              |  |
| Anthracene                            | <1.44 U              | 78                           |  |
| Fluoranthene                          | 3.89 B               | 80                           |  |
| 1-Methylfluoranthene                  | <1.44 U              |                              |  |
| 3-Methylfluoranthene/Benzo(a)fluorene | <1.44 U              |                              |  |
| Pyrene                                | 2.51                 | 76                           |  |
| C1-Fluoranthenes/Pyrenes              | <1.44 U              |                              |  |
| C2-Fluoranthenes/Pyrenes              | <1.44 U              |                              |  |
| C3-Fluoranthenes/Pyrenes              | <1.44 U              |                              |  |
| C4-Fluoranthenes/Pyrenes              | <1.44 U              |                              |  |

| ALS Life Sciences               |                      |                                                              |                              |  |
|---------------------------------|----------------------|--------------------------------------------------------------|------------------------------|--|
| Sample Analysis Summary Report  |                      |                                                              |                              |  |
| Sample Name                     | PLOT 402 - 6<br>JARS |                                                              | Laboratory<br>Control Sample |  |
| ALS Sample ID                   | L2756078-10          |                                                              | WG3789954-2                  |  |
| Benzo(a)anthracene              | <1.44                | U                                                            | 79                           |  |
| 7,12-Dimethylbenz(a)anthracene  | <1.44                | U                                                            |                              |  |
| C1-Benz(a)anthracenes/Chrysenes | <1.44                | U                                                            |                              |  |
| C2-Benz(a)anthracenes/Chrysenes | <1.44                | U                                                            |                              |  |
| C3-Benz(a)anthracenes/Chrysenes | <1.44                | U                                                            |                              |  |
| C4-Benz(a)anthracenes/Chrysenes | <1.44                | U                                                            |                              |  |
| Chrysene/Triphenylene           | 2.50                 |                                                              | 84                           |  |
| 1-Methylchrysene                | <1.44                | U                                                            |                              |  |
| 5/6-Methylchrysene              | <1.44                | U                                                            |                              |  |
| 3,11/5,9-Dimethylchrysene       | <1.44                | U                                                            |                              |  |
| Benzo(b)flouranthene            | <1.44                | U                                                            | 78                           |  |
| Benzo(k)fluoranthene            | <1.44                | U                                                            | 81                           |  |
| Benzo(e)Pyrene                  | <1.44                | U                                                            | 91                           |  |
| C1-Benzofluoranthenes/BAPs      | <1.44                | U                                                            |                              |  |
| C2-Benzofluoranthenes/BAPs      | <1.44                | U                                                            |                              |  |
| Benzo(a)pyrene                  | <1.44                | U                                                            | 79                           |  |
| 7-Methylbenzo(a)pyrene          | <1.44                | U                                                            |                              |  |
| Perylene                        | <1.44                | U                                                            | 64                           |  |
| Indeno(1,2,3-cd)pyrene          | <1.44                | U                                                            | 75                           |  |
| Dibenz(ah)anthracene            | <1.44                | U                                                            | 79                           |  |
| Benzo(ghi)perylene              | <1.44                | U                                                            | 83                           |  |
| Extraction Standards            | % Rec                |                                                              | % Rec                        |  |
| d8-Naphthalene(ES)              | 52.2                 |                                                              | 69.7                         |  |
| d10-2-Methylnaphthalene(ES)     | 68.1                 |                                                              | 80.2                         |  |
| d8-Acenaphthylene(ES)           | 83.7                 |                                                              | 81.7                         |  |
| d10-Phenanthrene(ES)            | 59.6                 |                                                              | 59.3                         |  |
| d10-Anthracene(ES)              | 53.6                 |                                                              | 58.0                         |  |
| d10-Fluoranthene(ES)            | 57.6                 |                                                              | 61.3                         |  |
| d12-Benzo(a)anthracene(ES)      | 63.0                 |                                                              | 82.7                         |  |
| d12-Chrysene(ES)                | 67.6                 |                                                              | 80.1                         |  |
| d12-Benzo(b)fluoranthene(ES)    | 50.6                 |                                                              | 65.8                         |  |
| d12-Benzo(k)fluoranthene(ES)    | 60.3                 |                                                              | 78.5                         |  |
| d12-Benzo(a)pyrene(ES)          | 58.4                 |                                                              | 87.6                         |  |
| d12-Perylene(ES)                | 62.4                 |                                                              | 72.2                         |  |
| d12-Indeno(1,2,3-cd)pyrene(ES)  | 58.8                 |                                                              | 80.3                         |  |
| d14-Dibenz(ah)anthracene(ES)    | 46.6                 |                                                              | 60.4                         |  |
|                                 | U                    | Indicates that this compound was not detected above the LOD. |                              |  |
|                                 | M                    | Indicates that a peak has been manually integrated.          |                              |  |

# ALS Life Sciences

## Laboratory Method Blank Analysis Report

|                    |                                |                 |                                                            |
|--------------------|--------------------------------|-----------------|------------------------------------------------------------|
| <b>Sample Name</b> | <b>Method Blank (Corn Oil)</b> | Sampling Date   | n/a                                                        |
| ALS Sample ID      | WG3789954-1                    | Extraction Date | 26-Jul-24                                                  |
| Analysis Method    | PAH by GCMS                    |                 |                                                            |
| Analysis Type      | blank                          |                 |                                                            |
| Sample Matrix      | QC                             |                 |                                                            |
| Sample Size        | 3.00 g                         |                 |                                                            |
| Percent Moisture   | n/a                            |                 |                                                            |
| Split Ratio        | 2                              | Workgroup       | WG3789954                                                  |
|                    |                                |                 | Approved:<br>Andrew Reid<br>--e-signature--<br>08-Aug-2024 |

|                        |                  |
|------------------------|------------------|
| <b>Run Information</b> | <b>Run 1</b>     |
| Filename               | 24080613.D       |
| Run Date               | 8/6/2024 15:27   |
| Final Volume           | 1 mL             |
| Dilution Factor        | 1                |
| Analysis Units         | ng/g             |
| Instrument             | MSD-5            |
| Column                 | HP5MS US2498036H |

| Target Analytes                | Ret. Time | Concentration ng/g | Flags |
|--------------------------------|-----------|--------------------|-------|
| Naphthalene                    | 2.91      | 3.47               |       |
| Quinoline                      | NotFnd    | <1.33              | U     |
| 2-Methylnaphthalene            | 3.49      | 1.48               |       |
| 1-Methylnaphthalene            | 3.60      | <1.33              | U     |
| 1,2-Dimethylnaphthalene        | NotFnd    | <1.33              | U     |
| 2,6-Dimethylnaphthalene        | 4.22      | 2.36 M             |       |
| 2,3,5-Trimethylnaphthalene     | 5.55      | <1.33              | U     |
| 2,3,6-Trimethylnaphthalene     | 5.42      | <1.33              | U     |
| 1,4,6,7-Tetramethylnaphthalene | NotFnd    | <1.33              | U     |
| C1-Naphthalenes                | 3.49      | 2.08 M             |       |
| C2-Naphthalenes                | 4.05      | 2.21 M             |       |
| C3-Naphthalenes                | 5.42      | 2.70 M             |       |
| C4-Naphthalenes                | 5.90      | 3.15 M             |       |
| Biphenyl                       | 4.01      | <1.33              | U     |
| Acenaphthylene                 | 4.57      | <1.33              | U     |
| Acenaphthene                   | 4.88      | <1.33              | U     |
| C1-Biphenyl                    | 4.81      | 2.10 M             |       |
| C2-Biphenyl                    | NotFnd    | <1.33              | U     |
| C1-Acenaphthenes               | 5.55      | <1.33              | U     |
| Fluorene                       | 5.78      | <1.33              | U     |
| 2-Methylfluorene               | NotFnd    | <1.33              | U     |
| 1,7-Dimethylfluorene           | NotFnd    | <1.33              | U     |
| Phenanthrene                   | 7.92      | <1.33              | U     |
| 3-Methylphenanthrene           | 9.24      | <1.33              | U     |
| 2-Methylphenanthrene           | 9.34      | <1.33              | U     |
| 9/4-Methylphenanthrene         | 9.48      | <1.33              | U     |
| 1-Methylphenanthrene           | 9.57      | <1.33              | U     |
| 2-Methylanthracene             | 9.64      | <1.33              | U     |
| 1,7-Dimethylphenanthrene       | NotFnd    | <1.33              | U     |
| 1,8-Dimethylphenanthrene       | NotFnd    | <1.33              | U     |
| 2,6-Dimethylphenanthrene       | NotFnd    | <1.33              | U     |
| 3,6-Dimethylphenanthrene       | NotFnd    | <1.33              | U     |
| Retene                         | NotFnd    | <1.33              | U     |
| 1,2,6-Trimethylphenanthrene    | NotFnd    | <1.33              | U     |
| Dibenzothiophene               | NotFnd    | <1.33              | U     |
| 2/3-Methylbenzothiophene       | NotFnd    | <1.33              | U     |
| 4,6-Dimethyldibenzothiophene   | NotFnd    | <1.33              | U     |
| C1-Phenanthrenes/Anthracenes   | 9.24      | 2.19 M             |       |
| C2-Phenanthrenes/Anthracenes   | 10.09     | <1.33              | U     |
| C3-Phenanthrenes/Anthracenes   | 12.27     | <1.33              | U     |
| C4-Phenanthrenes/Anthracenes   | NotFnd    | <1.33              | U     |
| C1-Fluorenes                   | NotFnd    | <1.33              | U     |
| C2-Fluorenes                   | NotFnd    | <1.33              | U     |



# ALS Life Sciences

## Laboratory Method Blank Analysis Report

|                                                                          |                                |                 |           |
|--------------------------------------------------------------------------|--------------------------------|-----------------|-----------|
| <b>Sample Name</b>                                                       | <b>Method Blank (Corn Oil)</b> | Sampling Date   | n/a       |
| ALS Sample ID                                                            | WG3789954-1                    | Extraction Date | 26-Jul-24 |
| Analysis Method                                                          | PAH by GCMS                    |                 |           |
| Analysis Type                                                            | blank                          |                 |           |
| Sample Matrix                                                            | QC                             |                 |           |
| Sample Size                                                              | 3.00 g                         |                 |           |
| Percent Moisture                                                         | n/a                            |                 |           |
| Split Ratio                                                              | 2                              | Workgroup       | WG3789954 |
| <div>Approved:<br/>Andrew Reid<br/>--e-signature--<br/>08-Aug-2024</div> |                                |                 |           |

|                                       |        |        |      |  |
|---------------------------------------|--------|--------|------|--|
| C3-Fluorenes                          | NotFnd | <1.33  | U    |  |
| C1-Dibenzothiophenes                  | NotFnd | <1.33  | U    |  |
| C2-Dibenzothiophenes                  | NotFnd | <1.33  | U    |  |
| C3-Dibenzothiophenes                  | NotFnd | <1.33  | U    |  |
| C4-Dibenzothiophenes                  | NotFnd | <1.33  | U    |  |
| Anthracene                            | 7.99   | <1.33  | U    |  |
| Fluoranthene                          | 11.28  | <1.33  | U    |  |
| 1-Methylfluoranthene                  | 13.09  | <1.33  | U    |  |
| 3-Methylfluoranthene/Benzo(a)fluorene | 13.29  | <1.33  | U    |  |
| Pyrene                                | 11.91  | <1.33  | U    |  |
| C1-Fluoranthenes/Pyrenes              | 13.29  | <1.33  | U    |  |
| C2-Fluoranthenes/Pyrenes              | 16.06  | 1.95 M | EMPC |  |
| C3-Fluoranthenes/Pyrenes              | 17.32  | <1.33  | U    |  |
| C4-Fluoranthenes/Pyrenes              | 17.92  | <1.33  | U    |  |
| Benzo(a)anthracene                    | 15.81  | <1.33  | U    |  |
| 7,12-Dimethylbenz(a)anthracene        | NotFnd | <1.33  | U    |  |
| C1-Benz(a)anthracenes/Chrysenes       | NotFnd | <1.33  | U    |  |
| C2-Benz(a)anthracenes/Chrysenes       | NotFnd | <1.33  | U    |  |
| C3-Benz(a)anthracenes/Chrysenes       | NotFnd | <1.33  | U    |  |
| C4-Benz(a)anthracenes/Chrysenes       | NotFnd | <1.33  | U    |  |
| Chrysene/Triphenylene                 | 15.93  | <1.33  | U    |  |
| 1-Methylchrysene                      | NotFnd | <1.33  | U    |  |
| 5/6-Methylchrysene                    | NotFnd | <1.33  | U    |  |
| 3,11/5,9-Dimethylchrysene             | NotFnd | <1.33  | U    |  |
| Benzo(b)fluoranthene                  | 19.14  | <1.33  | U    |  |
| Benzo(k)fluoranthene                  | 19.21  | <1.33  | U    |  |
| Benzo(e)Pyrene                        | NotFnd | <1.33  | U    |  |
| C1-Benzofluoranthenes/BAPs            | NotFnd | <1.33  | U    |  |
| C2-Benzofluoranthenes/BAPs            | NotFnd | <1.33  | U    |  |
| Benzo(a)pyrene                        | NotFnd | <1.33  | U    |  |
| 7-Methylbenzo(a)pyrene                | NotFnd | <1.33  | U    |  |
| Perylene                              | NotFnd | <1.33  | U    |  |
| Indeno(1,2,3-cd)pyrene                | NotFnd | <1.33  | U    |  |
| Dibenz(ah)anthracene                  | NotFnd | <1.33  | U    |  |
| Benzo(ghi)perylene                    | NotFnd | <1.33  | U    |  |

| Extraction Standards           |     |       |  | % Rec | Limits |
|--------------------------------|-----|-------|--|-------|--------|
| d8-Naphthalene(ES)             | 200 | 2.90  |  | 72.8  | 5-150  |
| d10-2-Methylnaphthalene(ES)    | 200 | 3.46  |  | 82.6  | 5-150  |
| d8-Acenaphthylene(ES)          | 200 | 4.57  |  | 86.1  | 5-150  |
| d10-Phenanthrene(ES)           | 200 | 7.87  |  | 65.6  | 5-150  |
| d10-Anthracene(ES)             | 200 | 7.99  |  | 65.1  | 5-150  |
| d10-Fluoranthene(ES)           | 200 | 11.23 |  | 61.6  | 5-150  |
| d12-Benzo(a)anthracene(ES)     | 200 | 15.74 |  | 73.7  | 5-150  |
| d12-Chrysene(ES)               | 200 | 15.85 |  | 73.9  | 5-150  |
| d12-Benzo(b)fluoranthene(ES)   | 200 | 19.07 |  | 65.2  | 5-150  |
| d12-Benzo(k)fluoranthene(ES)   | 200 | 19.15 |  | 73.1  | 5-150  |
| d12-Benzo(a)pyrene(ES)         | 200 | 19.95 |  | 78.4  | 5-150  |
| d12-Perylene(ES)               | 200 | 20.18 |  | 71.6  | 5-150  |
| d12-Indeno(1,2,3-cd)pyrene(ES) | 200 | 23.39 |  | 69.8  | 5-150  |
| d14-Dibenz(ah)anthracene(ES)   | 200 | 23.55 |  | 54.7  | 5-150  |
| d12-Benzo(ghi)perylene(ES)     | 200 | 24.27 |  | 52.7  | 5-150  |

M Indicates that a peak has been manually integrated.  
U Indicates that this compound was not detected above the MDL.  
EMPC This result is an Estimated Maximum Possible Concentration (EMPC) due to interference or positive id criterion failure

| ALS Life Sciences                       |  |                        |                    |                 |                                                            |
|-----------------------------------------|--|------------------------|--------------------|-----------------|------------------------------------------------------------|
| Laboratory Method Blank Analysis Report |  |                        |                    |                 |                                                            |
| Sample Name                             |  | Method Blank (Reagent) |                    | Sampling Date   | n/a                                                        |
| ALS Sample ID                           |  | WG3789954-4            |                    | Extraction Date | 26-Jul-24                                                  |
| Analysis Method                         |  | PAH by GCMS            |                    |                 |                                                            |
| Analysis Type                           |  | blank                  |                    |                 |                                                            |
| Sample Matrix                           |  | QC                     |                    |                 | Approved:<br>Andrew Reid<br>--e-signature--<br>08-Aug-2024 |
| Sample Size                             |  | 3.00                   | g                  |                 |                                                            |
| Percent Moisture                        |  | n/a                    |                    |                 |                                                            |
| Split Ratio                             |  | 2                      |                    |                 |                                                            |
|                                         |  |                        |                    | Workgroup       | WG3789954                                                  |
| Run Information                         |  | Run 1                  |                    |                 |                                                            |
| Filename                                |  | 24080614.D             |                    |                 |                                                            |
| Run Date                                |  | 8/6/2024 16:04         |                    |                 |                                                            |
| Final Volume                            |  | 1 mL                   |                    |                 |                                                            |
| Dilution Factor                         |  | 1                      |                    |                 |                                                            |
| Analysis Units                          |  | ng/g                   |                    |                 |                                                            |
| Instrument                              |  | MSD-5                  |                    |                 |                                                            |
| Column                                  |  | HP5MS US2498036H       |                    |                 |                                                            |
| Target Analytes                         |  | Ret. Time              | Concentration ng/g | Flags           |                                                            |
| Naphthalene                             |  |                        | NQ                 |                 |                                                            |
| Quinoline                               |  |                        | NQ                 |                 |                                                            |
| 2-Methylnaphthalene                     |  |                        | NQ                 |                 |                                                            |
| 1-Methylnaphthalene                     |  |                        | NQ                 |                 |                                                            |
| 1,2-Dimethylnaphthalene                 |  |                        | NQ                 |                 |                                                            |
| 2,6-Dimethylnaphthalene                 |  |                        | NQ                 |                 |                                                            |
| 2,3,5-Trimethylnaphthalene              |  |                        | NQ                 |                 |                                                            |
| 2,3,6-Trimethylnaphthalene              |  |                        | NQ                 |                 |                                                            |
| 1,4,6,7-Tetramethylnaphthalene          |  |                        | NQ                 |                 |                                                            |
| C1-Naphthalenes                         |  |                        | NQ                 |                 |                                                            |
| C2-Naphthalenes                         |  |                        | NQ                 |                 |                                                            |
| C3-Naphthalenes                         |  |                        | NQ                 |                 |                                                            |
| C4-Naphthalenes                         |  |                        | NQ                 |                 |                                                            |
| Biphenyl                                |  |                        | NQ                 |                 |                                                            |
| Acenaphthylene                          |  |                        | NQ                 |                 |                                                            |
| Acenaphthene                            |  |                        | NQ                 |                 |                                                            |
| C1-Biphenyl                             |  |                        | NQ                 |                 |                                                            |
| C2-Biphenyl                             |  |                        | NQ                 |                 |                                                            |
| C1-Acenaphthenes                        |  |                        | NQ                 |                 |                                                            |
| Fluorene                                |  | 5.78                   | <1.33              | U               |                                                            |
| 2-Methylfluorene                        |  | 7.15                   | <1.33              | U               |                                                            |
| 1,7-Dimethylfluorene                    |  | NotFnd                 | <1.33              | U               |                                                            |
| Phenanthrene                            |  | 7.92                   | 4.49               |                 |                                                            |
| 3-Methylphenanthrene                    |  | 9.26                   | <1.33              | U               |                                                            |
| 2-Methylphenanthrene                    |  | 9.34                   | <1.33              | U               |                                                            |
| 9/4-Methylphenanthrene                  |  | 9.45                   | <1.33              | U               |                                                            |
| 1-Methylphenanthrene                    |  | 9.57                   | <1.33              | U               |                                                            |
| 2-Methylanthracene                      |  | 9.63                   | <1.33              | U               |                                                            |
| 1,7-Dimethylphenanthrene                |  | NotFnd                 | <1.33              | U               |                                                            |
| 1,8-Dimethylphenanthrene                |  | NotFnd                 | <1.33              | U               |                                                            |
| 2,6-Dimethylphenanthrene                |  | NotFnd                 | <1.33              | U               |                                                            |
| 3,6-Dimethylphenanthrene                |  | NotFnd                 | <1.33              | U               |                                                            |
| Retene                                  |  | NotFnd                 | <1.33              | U               |                                                            |
| 1,2,6-Trimethylphenanthrene             |  | NotFnd                 | <1.33              | U               |                                                            |
| Dibenzothiophene                        |  | 7.62                   | <1.33              | U               |                                                            |
| 2/3-Methylbenzothiophene                |  | NotFnd                 | <1.33              | U               |                                                            |
| 4,6-Dimethyldibenzothiophene            |  | NotFnd                 | <1.33              | U               |                                                            |
| C1-Phenanthrenes/Anthracenes            |  | 9.34                   | 2.43 M             |                 |                                                            |
| C2-Phenanthrenes/Anthracenes            |  | NotFnd                 | <1.33              | U               |                                                            |
| C3-Phenanthrenes/Anthracenes            |  | NotFnd                 | <1.33              | U               |                                                            |
| C4-Phenanthrenes/Anthracenes            |  | NotFnd                 | <1.33              | U               |                                                            |
| C1-Fluorenes                            |  | NotFnd                 | <1.33              | U               |                                                            |
| C2-Fluorenes                            |  | NotFnd                 | <1.33              | U               |                                                            |

# ALS Life Sciences

## Laboratory Method Blank Analysis Report

|                                                                                                            |                               |                 |           |
|------------------------------------------------------------------------------------------------------------|-------------------------------|-----------------|-----------|
| <b>Sample Name</b>                                                                                         | <b>Method Blank (Reagent)</b> | Sampling Date   | n/a       |
| ALS Sample ID                                                                                              | WG3789954-4                   | Extraction Date | 26-Jul-24 |
| Analysis Method                                                                                            | PAH by GCMS                   |                 |           |
| Analysis Type                                                                                              | blank                         |                 |           |
| Sample Matrix                                                                                              | QC                            |                 |           |
| Sample Size                                                                                                | 3.00 g                        |                 |           |
| Percent Moisture                                                                                           | n/a                           |                 |           |
| Split Ratio                                                                                                | 2                             | Workgroup       | WG3789954 |
| <div> <div>Approved:</div> <div>Andrew Reid</div> <div>--e-signature--</div> <div>08-Aug-2024</div> </div> |                               |                 |           |

|                                       |        |       |   |
|---------------------------------------|--------|-------|---|
| C3-Fluorenes                          | NotFnd | <1.33 | U |
| C1-Dibenzothiophenes                  | NotFnd | <1.33 | U |
| C2-Dibenzothiophenes                  | NotFnd | <1.33 | U |
| C3-Dibenzothiophenes                  | NotFnd | <1.33 | U |
| C4-Dibenzothiophenes                  | NotFnd | <1.33 | U |
| Anthracene                            | NotFnd | <1.33 | U |
| Fluoranthene                          | 11.28  | 1.48  |   |
| 1-Methylfluoranthene                  | 13.09  | <1.33 | U |
| 3-Methylfluoranthene/Benzo(a)fluorene | 13.29  | <1.33 | U |
| Pyrene                                | 11.91  | <1.33 | U |
| C1-Fluoranthenes/Pyrenes              | NotFnd | <1.33 | U |
| C2-Fluoranthenes/Pyrenes              | NotFnd | <1.33 | U |
| C3-Fluoranthenes/Pyrenes              | NotFnd | <1.33 | U |
| C4-Fluoranthenes/Pyrenes              | NotFnd | <1.33 | U |
| Benzo(a)anthracene                    | 15.80  | <1.33 | U |
| 7,12-Dimethylbenz(a)anthracene        | NotFnd | <1.33 | U |
| C1-Benz(a)anthracenes/Chrysenes       | NotFnd | <1.33 | U |
| C2-Benz(a)anthracenes/Chrysenes       | NotFnd | <1.33 | U |
| C3-Benz(a)anthracenes/Chrysenes       | NotFnd | <1.33 | U |
| C4-Benz(a)anthracenes/Chrysenes       | NotFnd | <1.33 | U |
| Chrysene/Triphenylene                 | 15.93  | <1.33 | U |
| 1-Methylchrysene                      | NotFnd | <1.33 | U |
| 5/6-Methylchrysene                    | NotFnd | <1.33 | U |
| 3,11/5,9-Dimethylchrysene             | NotFnd | <1.33 | U |
| Benzo(b)fluoranthene                  | 19.15  | <1.33 | U |
| Benzo(k)fluoranthene                  | 19.21  | <1.33 | U |
| Benzo(e)Pyrene                        | NotFnd | <1.33 | U |
| C1-Benzofluoranthenes/BAPs            | NotFnd | <1.33 | U |
| C2-Benzofluoranthenes/BAPs            | NotFnd | <1.33 | U |
| Benzo(a)pyrene                        | NotFnd | <1.33 | U |
| 7-Methylbenzo(a)pyrene                | NotFnd | <1.33 | U |
| Perylene                              | NotFnd | <1.33 | U |
| Indeno(1,2,3-cd)pyrene                | 23.46  | <1.33 | U |
| Dibenz(ah)anthracene                  | 23.65  | <1.33 | U |
| Benzo(ghi)perylene                    | 24.37  | <1.33 | U |

| Extraction Standards           |     |       | % Rec | Limits |
|--------------------------------|-----|-------|-------|--------|
| d8-Naphthalene(ES)             | 200 | 2.90  | 1.7   | 5-150  |
| d10-2-Methylnaphthalene(ES)    | 200 | 3.46  | 5.6   | 5-150  |
| d8-Acenaphthylene(ES)          | 200 | 4.57  | 9.6   | 5-150  |
| d10-Phenanthrene(ES)           | 200 | 7.87  | 48.6  | 5-150  |
| d10-Anthracene(ES)             | 200 | 7.99  | 47.4  | 5-150  |
| d10-Fluoranthene(ES)           | 200 | 11.23 | 62.1  | 5-150  |
| d12-Benzo(a)anthracene(ES)     | 200 | 15.74 | 63.8  | 5-150  |
| d12-Chrysene(ES)               | 200 | 15.85 | 73.4  | 5-150  |
| d12-Benzo(b)fluoranthene(ES)   | 200 | 19.07 | 50.1  | 5-150  |
| d12-Benzo(k)fluoranthene(ES)   | 200 | 19.16 | 57.4  | 5-150  |
| d12-Benzo(a)pyrene(ES)         | 200 | 19.95 | 52.4  | 5-150  |
| d12-Perylene(ES)               | 200 | 20.18 | 61.9  | 5-150  |
| d12-Indeno(1,2,3-cd)pyrene(ES) | 200 | 23.39 | 58.2  | 5-150  |
| d14-Dibenz(ah)anthracene(ES)   | 200 | 23.55 | 44.3  | 5-150  |
| d12-Benzo(ghi)perylene(ES)     | 200 | 24.27 | 48.7  | 5-150  |

M Indicates that a peak has been manually integrated.  
U Indicates that this compound was not detected above the MDL.  
NQ Indicates that this compound was not quantifiable.

| ALS Life Sciences              |                 |                    |                 |                                                            |
|--------------------------------|-----------------|--------------------|-----------------|------------------------------------------------------------|
| Sample Analysis Report         |                 |                    |                 |                                                            |
| Sample Name                    | PLOT 4 - 6 JARS |                    | Sampling Date   | 25-May-24                                                  |
| ALS Sample ID                  | L2756078-1      |                    | Extraction Date | 26-Jul-24                                                  |
| Analysis Method                | PAH by GCMS     |                    |                 |                                                            |
| Analysis Type                  | sample          |                    |                 |                                                            |
| Sample Matrix                  | Tissue          |                    |                 | Approved:<br>Andrew Reid<br>--e-signature--<br>08-Aug-2024 |
| Sample Size                    | 2.85            | g                  |                 |                                                            |
| Percent Moisture               | 72.0%           |                    |                 |                                                            |
| Split Ratio                    | 2               |                    | Workgroup       |                                                            |
| Run Information                |                 | Run 1              |                 |                                                            |
| Filename                       |                 | 24080618.D         |                 |                                                            |
| Run Date                       |                 | 8/6/2024 18:35     |                 |                                                            |
| Final Volume                   |                 | 1 mL               |                 |                                                            |
| Dilution Factor                |                 | 1                  |                 |                                                            |
| Analysis Units                 |                 | ng/g               |                 |                                                            |
| Instrument                     |                 | MSD-5              |                 |                                                            |
| Column                         |                 | HP5MS US2498036H   |                 |                                                            |
| Target Analytes                | Ret. Time       | Concentration ng/g | Flags           |                                                            |
| Naphthalene                    | 2.91            | 11.3               | B               |                                                            |
| Quinoline                      | 3.18            | 4.55               |                 |                                                            |
| 2-Methylnaphthalene            | 3.49            | 8.45               | B               |                                                            |
| 1-Methylnaphthalene            | 3.61            | 4.57               |                 |                                                            |
| 1,2-Dimethylnaphthalene        | 4.01            | 2.42               | M               |                                                            |
| 2,6-Dimethylnaphthalene        | 4.21            | 2.29               | B               |                                                            |
| 2,3,5-Trimethylnaphthalene     | 5.56            | 1.70               |                 |                                                            |
| 2,3,6-Trimethylnaphthalene     | 5.40            | <1.4               | U               |                                                            |
| 1,4,6,7-Tetramethylnaphthalene | 7.74            | <1.4               | U               |                                                            |
| C1-Naphthalenes                | 3.49            | 11.0               | M B             |                                                            |
| C2-Naphthalenes                | 4.01            | 10.7               | M               |                                                            |
| C3-Naphthalenes                | 5.42            | 6.62               | M B             |                                                            |
| C4-Naphthalenes                | 7.07            | 4.72               | M B             |                                                            |
| Biphenyl                       | 4.01            | 1.66               |                 |                                                            |
| Acenaphthylene                 | 4.57            | <1.4               | U               |                                                            |
| Acenaphthene                   | 4.88            | <1.4               | U               |                                                            |
| C1-Biphenyl                    | 4.81            | 5.77               | M B             |                                                            |
| C2-Biphenyl                    | 5.78            | <1.4               | U               |                                                            |
| C1-Acenaphthenes               | 5.56            | <1.4               | U               |                                                            |
| Fluorene                       | 5.78            | 3.21               |                 |                                                            |
| 2-Methylfluorene               | 7.18            | <1.4               | U               |                                                            |
| 1,7-Dimethylfluorene           | 8.22            | <1.4               | U               |                                                            |
| Phenanthrene                   | 7.92            | 15.4               | B               |                                                            |
| 3-Methylphenanthrene           | 9.26            | 2.67               | M               |                                                            |
| 2-Methylphenanthrene           | 9.34            | 3.94               | M               |                                                            |
| 9/4-Methylphenanthrene         | 9.49            | <1.4               | U               |                                                            |
| 1-Methylphenanthrene           | 9.57            | 1.47               | M               |                                                            |
| 2-Methylanthracene             | 9.63            | <1.4               | U               |                                                            |
| 1,7-Dimethylphenanthrene       | 10.61           | <1.4               | U               |                                                            |
| 1,8-Dimethylphenanthrene       | 10.72           | <1.4               | U               |                                                            |
| 2,6-Dimethylphenanthrene       | 10.95           | 4.01               | M               |                                                            |
| 3,6-Dimethylphenanthrene       | 11.10           | 5.52               | M               |                                                            |
| Retene                         | 13.15           | 8.91               |                 |                                                            |
| 1,2,6-Trimethylphenanthrene    | 13.35           | <1.4               | U               |                                                            |
| Dibenzothiophene               | 7.62            | <1.4               | U               |                                                            |
| 2/3-Methylbenzothiophene       | 9.01            | <1.4               | U               |                                                            |
| 4,6-Dimethyldibenzothiophene   | 9.80            | 28.3               |                 |                                                            |
| C1-Phenanthrenes/Anthracenes   | 9.34            | 10.6               | M B             |                                                            |
| C2-Phenanthrenes/Anthracenes   | 11.10           | 4.99               | M               |                                                            |
| C3-Phenanthrenes/Anthracenes   | 12.40           | 1.74               | M               |                                                            |
| C4-Phenanthrenes/Anthracenes   | 13.15           | 3.54               | M               |                                                            |
| C1-Fluorenes                   | 7.06            | 3.38               | M               |                                                            |
| C2-Fluorenes                   | 8.12            | <1.4               | U               |                                                            |

# ALS Life Sciences

## Sample Analysis Report

|                                                                                               |                        |                 |           |
|-----------------------------------------------------------------------------------------------|------------------------|-----------------|-----------|
| <b>Sample Name</b>                                                                            | <b>PLOT 4 - 6 JARS</b> | Sampling Date   | 25-May-24 |
| ALS Sample ID                                                                                 | L2756078-1             | Extraction Date | 26-Jul-24 |
| Analysis Method                                                                               | PAH by GCMS            |                 |           |
| Analysis Type                                                                                 | sample                 |                 |           |
| Sample Matrix                                                                                 | Tissue                 |                 |           |
| Sample Size                                                                                   | 2.85 g                 |                 |           |
| Percent Moisture                                                                              | 72.0%                  |                 |           |
| Split Ratio                                                                                   | 2                      | Workgroup       | WG3789954 |
| <div>Approved:</div> <div>Andrew Reid</div> <div>--e-signature--</div> <div>08-Aug-2024</div> |                        |                 |           |

|                                       |        |      |   |
|---------------------------------------|--------|------|---|
| C3-Fluorenes                          | 10.72  | <1.4 | U |
| C1-Dibenzothiophenes                  | 8.78   | 1.85 | M |
| C2-Dibenzothiophenes                  | 9.80   | 33.5 | M |
| C3-Dibenzothiophenes                  | 10.94  | 2.68 | M |
| C4-Dibenzothiophenes                  | NotFnd | <1.4 | U |
| Anthracene                            | 8.04   | <1.4 | U |
| Fluoranthene                          | 11.28  | 6.29 | B |
| 1-Methylfluoranthene                  | 13.07  | <1.4 | U |
| 3-Methylfluoranthene/Benzo(a)fluorene | 13.31  | <1.4 | U |
| Pyrene                                | 11.91  | 3.13 |   |
| C1-Fluoranthenes/Pyrenes              | 13.07  | 2.17 | M |
| C2-Fluoranthenes/Pyrenes              | 16.48  | <1.4 | U |
| C3-Fluoranthenes/Pyrenes              | 17.62  | <1.4 | U |
| C4-Fluoranthenes/Pyrenes              | NotFnd | <1.4 | U |
| Benzo(a)anthracene                    | 15.81  | <1.4 | U |
| 7,12-Dimethylbenz(a)anthracene        | NotFnd | <1.4 | U |
| C1-Benz(a)anthracenes/Chrysenes       | NotFnd | <1.4 | U |
| C2-Benz(a)anthracenes/Chrysenes       | NotFnd | <1.4 | U |
| C3-Benz(a)anthracenes/Chrysenes       | NotFnd | <1.4 | U |
| C4-Benz(a)anthracenes/Chrysenes       | NotFnd | <1.4 | U |
| Chrysene/Triphenylene                 | 15.91  | 5.23 |   |
| 1-Methylchrysene                      | NotFnd | <1.4 | U |
| 5/6-Methylchrysene                    | NotFnd | <1.4 | U |
| 3,11/5,9-Dimethylchrysene             | NotFnd | <1.4 | U |
| Benzo(b)fluoranthene                  | 19.14  | 2.22 |   |
| Benzo(k)fluoranthene                  | 19.22  | 2.86 |   |
| Benzo(e)Pyrene                        | NotFnd | <1.4 | U |
| C1-Benzofluoranthenes/BAPs            | NotFnd | <1.4 | U |
| C2-Benzofluoranthenes/BAPs            | NotFnd | <1.4 | U |
| Benzo(a)pyrene                        | NotFnd | <1.4 | U |
| 7-Methylbenzo(a)pyrene                | NotFnd | <1.4 | U |
| Perylene                              | NotFnd | <1.4 | U |
| Indeno(1,2,3-cd)pyrene                | 23.46  | <1.4 | U |
| Dibenz(ah)anthracene                  | 23.65  | <1.4 | U |
| Benzo(ghi)perylene                    | 24.37  | <1.4 | U |

| Extraction Standards           |     |       | % Rec | Limits |
|--------------------------------|-----|-------|-------|--------|
| d8-Naphthalene(ES)             | 200 | 2.90  | 69.4  | 5-150  |
| d10-2-Methylnaphthalene(ES)    | 200 | 3.46  | 82.3  | 5-150  |
| d8-Acenaphthylene(ES)          | 200 | 4.57  | 88.6  | 5-150  |
| d10-Phenanthrene(ES)           | 200 | 7.87  | 67.1  | 5-150  |
| d10-Anthracene(ES)             | 200 | 7.99  | 60.7  | 5-150  |
| d10-Fluoranthene(ES)           | 200 | 11.22 | 71.2  | 5-150  |
| d12-Benzo(a)anthracene(ES)     | 200 | 15.74 | 69.6  | 5-150  |
| d12-Chrysene(ES)               | 200 | 15.85 | 73.7  | 5-150  |
| d12-Benzo(b)fluoranthene(ES)   | 200 | 19.07 | 60.3  | 5-150  |
| d12-Benzo(k)fluoranthene(ES)   | 200 | 19.15 | 68.1  | 5-150  |
| d12-Benzo(a)pyrene(ES)         | 200 | 19.95 | 71.3  | 5-150  |
| d12-Perylene(ES)               | 200 | 20.18 | 63.3  | 5-150  |
| d12-Indeno(1,2,3-cd)pyrene(ES) | 200 | 23.38 | 65.4  | 5-150  |
| d14-Dibenz(ah)anthracene(ES)   | 200 | 23.55 | 52.0  | 5-150  |
| d12-Benzo(ghi)perylene(ES)     | 200 | 24.27 | 50.9  | 5-150  |

|   |                                                                                                        |
|---|--------------------------------------------------------------------------------------------------------|
| M | Indicates that a peak has been manually integrated.                                                    |
| U | Indicates that this compound was not detected above the MDL.                                           |
| B | Indicates that this compound was detected in the method blank at greater than 10% of the sample value. |

# ALS Life Sciences

## Sample Analysis Report

|                    |                  |                 |                                                            |
|--------------------|------------------|-----------------|------------------------------------------------------------|
| <b>Sample Name</b> | <b>Duplicate</b> | Sampling Date   | n/a                                                        |
| ALS Sample ID      | WG3789954-5      | Extraction Date | 26-Jul-24                                                  |
| Analysis Method    | PAH by GCMS      |                 |                                                            |
| Analysis Type      | sample           |                 |                                                            |
| Sample Matrix      | QC               |                 |                                                            |
| Sample Size        | 2.81 g           |                 |                                                            |
| Percent Moisture   | 72.0%            |                 |                                                            |
| Split Ratio        | 2                | Workgroup       | WG3789954                                                  |
|                    |                  |                 | Approved:<br>Andrew Reid<br>--e-signature--<br>08-Aug-2024 |

|                        |                  |
|------------------------|------------------|
| <b>Run Information</b> | <b>Run 1</b>     |
| Filename               | 24080619.D       |
| Run Date               | 8/6/2024 19:12   |
| Final Volume           | 1 mL             |
| Dilution Factor        | 1                |
| Analysis Units         | ng/g             |
| Instrument             | MSD-5            |
| Column                 | HP5MS US2498036H |

| Target Analytes                | Ret. Time | Concentration ng/g | Flags | RPD  |
|--------------------------------|-----------|--------------------|-------|------|
| Naphthalene                    | 2.91      | 10.9               | B     | 3.6  |
| Quinoline                      | 3.18      | 2.33 M             |       | 64.5 |
| 2-Methylnaphthalene            | 3.49      | 8.51               | B     | 0.7  |
| 1-Methylnaphthalene            | 3.61      | 4.54               |       | 0.7  |
| 1,2-Dimethylnaphthalene        | 4.01      | 2.42 M             |       | 0.0  |
| 2,6-Dimethylnaphthalene        | 4.22      | 2.19               | B     | 4.5  |
| 2,3,5-Trimethylnaphthalene     | 5.56      | 1.85 M             |       | 8.5  |
| 2,3,6-Trimethylnaphthalene     | 5.40      | <1.42              | U     | -    |
| 1,4,6,7-Tetramethylnaphthalene | 7.73      | <1.42              | U     | -    |
| C1-Naphthalenes                | 3.49      | 11.3 M             |       | 2.7  |
| C2-Naphthalenes                | 4.01      | 11.1 M             | B     | 3.7  |
| C3-Naphthalenes                | 5.42      | 6.99 M             | B     | 5.4  |
| C4-Naphthalenes                | 6.29      | 7.43 M             | B     | 44.6 |
| Biphenyl                       | 4.01      | 1.54               |       | 7.5  |
| Acenaphthylene                 | 4.57      | <1.42              | U     | -    |
| Acenaphthene                   | 4.88      | <1.42              | U     | -    |
| C1-Biphenyl                    | 4.82      | 5.15 M             | B     | 11.4 |
| C2-Biphenyl                    | 5.88      | <1.42              | U     | -    |
| C1-Acenaphthenes               | 5.56      | <1.42              | U     | -    |
| Fluorene                       | 5.78      | 2.85               |       | 11.9 |
| 2-Methylfluorene               | 7.18      | <1.42              | U     | -    |
| 1,7-Dimethylfluorene           | 8.12      | <1.42              | U     | -    |
| Phenanthrene                   | 7.92      | 12.6               | B     | 20.0 |
| 3-Methylphenanthrene           | 9.26      | 2.18 M             |       | 20.2 |
| 2-Methylphenanthrene           | 9.34      | 2.96 M             |       | 28.4 |
| 9/4-Methylphenanthrene         | 9.49      | <1.42              | U     | -    |
| 1-Methylphenanthrene           | 9.57      | <1.42              | U     | -    |
| 2-Methylanthracene             | 9.63      | <1.42              | U     | -    |
| 1,7-Dimethylphenanthrene       | 10.61     | <1.42              | U     | -    |
| 1,8-Dimethylphenanthrene       | 10.72     | <1.42              | U     | -    |
| 2,6-Dimethylphenanthrene       | 10.95     | 2.32 M             |       | 53.4 |
| 3,6-Dimethylphenanthrene       | 11.10     | 4.58 M             |       | 18.6 |
| Retene                         | 13.15     | 7.36               |       | 19.1 |
| 1,2,6-Trimethylphenanthrene    | 13.35     | <1.42              | U     | -    |
| Dibenzothiophene               | 7.62      | <1.42              | U     | -    |
| 2/3-Methylbenzothiophene       | 9.01      | <1.42              | U     | -    |
| 4,6-Dimethyldibenzothiophene   | 9.80      | 8.69               |       | 106  |
| C1-Phenanthrenes/Anthracenes   | 9.34      | 7.78 M             | B     | 30.7 |
| C2-Phenanthrenes/Anthracenes   | 11.10     | 4.60 M             |       | 8.1  |
| C3-Phenanthrenes/Anthracenes   | 12.40     | 1.58 M             |       | 9.6  |
| C4-Phenanthrenes/Anthracenes   | 13.15     | 2.99 M             |       | 16.8 |
| C1-Fluorenes                   | 7.06      | 2.25 M             |       | 40.1 |
| C2-Fluorenes                   | 8.47      | <1.42              | U     | -    |

# ALS Life Sciences

## Sample Analysis Report

|                                                                                                            |                  |                 |           |
|------------------------------------------------------------------------------------------------------------|------------------|-----------------|-----------|
| <b>Sample Name</b>                                                                                         | <b>Duplicate</b> | Sampling Date   | n/a       |
| ALS Sample ID                                                                                              | WG3789954-5      | Extraction Date | 26-Jul-24 |
| Analysis Method                                                                                            | PAH by GCMS      |                 |           |
| Analysis Type                                                                                              | sample           |                 |           |
| Sample Matrix                                                                                              | QC               |                 |           |
| Sample Size                                                                                                | 2.81 g           |                 |           |
| Percent Moisture                                                                                           | 72.0%            |                 |           |
| Split Ratio                                                                                                | 2                | Workgroup       | WG3789954 |
| <div> <div>Approved:</div> <div>Andrew Reid</div> <div>--e-signature--</div> <div>08-Aug-2024</div> </div> |                  |                 |           |

|                                       |        |       |   |      |
|---------------------------------------|--------|-------|---|------|
| C3-Fluorenes                          | 10.22  | <1.42 | U | -    |
| C1-Dibenzothiophenes                  | 8.78   | 1.83  | M | 1.1  |
| C2-Dibenzothiophenes                  | 9.80   | 11.7  | M | 96.5 |
| C3-Dibenzothiophenes                  | 10.65  | 2.37  | M | 12.3 |
| C4-Dibenzothiophenes                  | NotFnd | <1.42 | U | -    |
| Anthracene                            | 8.04   | <1.42 | U | -    |
| Fluoranthene                          | 11.28  | 4.31  | B | 37.4 |
| 1-Methylfluoranthene                  | 13.07  | <1.42 | U | -    |
| 3-Methylfluoranthene/Benzo(a)fluorene | 13.32  | <1.42 | U | -    |
| Pyrene                                | 11.91  | 2.29  |   | 31.0 |
| C1-Fluoranthenes/Pyrenes              | 13.05  | 1.84  | M | 16.5 |
| C2-Fluoranthenes/Pyrenes              | 16.48  | <1.42 | U | -    |
| C3-Fluoranthenes/Pyrenes              | 17.62  | <1.42 | U | -    |
| C4-Fluoranthenes/Pyrenes              | NotFnd | <1.42 | U | -    |
| Benzo(a)anthracene                    | 15.81  | <1.42 | U | -    |
| 7,12-Dimethylbenz(a)anthracene        | NotFnd | <1.42 | U | -    |
| C1-Benz(a)anthracenes/Chrysenes       | NotFnd | <1.42 | U | -    |
| C2-Benz(a)anthracenes/Chrysenes       | NotFnd | <1.42 | U | -    |
| C3-Benz(a)anthracenes/Chrysenes       | NotFnd | <1.42 | U | -    |
| C4-Benz(a)anthracenes/Chrysenes       | NotFnd | <1.42 | U | -    |
| Chrysene/Triphenylene                 | 15.91  | 4.55  |   | 13.9 |
| 1-Methylchrysene                      | NotFnd | <1.42 | U | -    |
| 5/6-Methylchrysene                    | NotFnd | <1.42 | U | -    |
| 3,11/5,9-Dimethylchrysene             | NotFnd | <1.42 | U | -    |
| Benzo(b)fluoranthene                  | 19.14  | 1.84  | M | 18.7 |
| Benzo(k)fluoranthene                  | 19.22  | 2.24  | M | 24.3 |
| Benzo(e)Pyrene                        | NotFnd | <1.42 | U | -    |
| C1-Benzofluoranthenes/BAPs            | NotFnd | <1.42 | U | -    |
| C2-Benzofluoranthenes/BAPs            | NotFnd | <1.42 | U | -    |
| Benzo(a)pyrene                        | NotFnd | <1.42 | U | -    |
| 7-Methylbenzo(a)pyrene                | NotFnd | <1.42 | U | -    |
| Perylene                              | NotFnd | <1.42 | U | -    |
| Indeno(1,2,3-cd)pyrene                | 23.46  | <1.42 | U | -    |
| Dibenz(ah)anthracene                  | 23.65  | <1.42 | U | -    |
| Benzo(ghi)perylene                    | 24.37  | <1.42 | U | -    |

| Extraction Standards           |     |       | % Rec | Limits |
|--------------------------------|-----|-------|-------|--------|
| d8-Naphthalene(ES)             | 200 | 2.90  | 60.3  | 5-150  |
| d10-2-Methylnaphthalene(ES)    | 200 | 3.46  | 75.6  | 5-150  |
| d8-Acenaphthylene(ES)          | 200 | 4.57  | 84.2  | 5-150  |
| d10-Phenanthrene(ES)           | 200 | 7.87  | 63.5  | 5-150  |
| d10-Anthracene(ES)             | 200 | 7.99  | 59.1  | 5-150  |
| d10-Fluoranthene(ES)           | 200 | 11.22 | 61.7  | 5-150  |
| d12-Benzo(a)anthracene(ES)     | 200 | 15.74 | 71.2  | 5-150  |
| d12-Chrysene(ES)               | 200 | 15.85 | 77.4  | 5-150  |
| d12-Benzo(b)fluoranthene(ES)   | 200 | 19.07 | 63.3  | 5-150  |
| d12-Benzo(k)fluoranthene(ES)   | 200 | 19.16 | 71.5  | 5-150  |
| d12-Benzo(a)pyrene(ES)         | 200 | 19.95 | 69.6  | 5-150  |
| d12-Perylene(ES)               | 200 | 20.18 | 64.5  | 5-150  |
| d12-Indeno(1,2,3-cd)pyrene(ES) | 200 | 23.39 | 55.4  | 5-150  |
| d14-Dibenz(ah)anthracene(ES)   | 200 | 23.55 | 43.0  | 5-150  |
| d12-Benzo(ghi)perylene(ES)     | 200 | 24.27 | 41.5  | 5-150  |

M Indicates that a peak has been manually integrated.

U Indicates that this compound was not detected above the MDL.

B Indicates that this compound was detected in the method blank at greater than 10% of the sample value.



# ALS Life Sciences

## Sample Analysis Report

|                                                                          |                         |                 |           |
|--------------------------------------------------------------------------|-------------------------|-----------------|-----------|
| <b>Sample Name</b>                                                       | <b>PLOT 11 - 4 JARS</b> | Sampling Date   | 25-May-24 |
| ALS Sample ID                                                            | L2756078-2              | Extraction Date | 26-Jul-24 |
| Analysis Method                                                          | PAH by GCMS             |                 |           |
| Analysis Type                                                            | sample                  |                 |           |
| Sample Matrix                                                            | Tissue                  |                 |           |
| Sample Size                                                              | 2.92 g                  |                 |           |
| Percent Moisture                                                         | 70.9%                   |                 |           |
| Split Ratio                                                              | 2                       | Workgroup       | WG3789954 |
| <div>Approved:<br/>Andrew Reid<br/>--e-signature--<br/>08-Aug-2024</div> |                         |                 |           |

|                        |                  |
|------------------------|------------------|
| <b>Run Information</b> | <b>Run 1</b>     |
| Filename               | 24080620.D       |
| Run Date               | 8/6/2024 19:50   |
| Final Volume           | 1 mL             |
| Dilution Factor        | 1                |
| Analysis Units         | ng/g             |
| Instrument             | MSD-5            |
| Column                 | HP5MS US2498036H |

| Target Analytes                | Ret. Time | Concentration ng/g | Flags |
|--------------------------------|-----------|--------------------|-------|
| Naphthalene                    | 2.91      | 42.0               |       |
| Quinoline                      | 3.19      | 6.11               |       |
| 2-Methylnaphthalene            | 3.49      | 25.9               | B     |
| 1-Methylnaphthalene            | 3.61      | 13.4               |       |
| 1,2-Dimethylnaphthalene        | 4.01      | 3.02 M             |       |
| 2,6-Dimethylnaphthalene        | 4.22      | 4.26               | B     |
| 2,3,5-Trimethylnaphthalene     | 5.56      | 2.65               |       |
| 2,3,6-Trimethylnaphthalene     | 5.40      | 1.52 M             |       |
| 1,4,6,7-Tetramethylnaphthalene | 7.74      | 1.65 M             |       |
| C1-Naphthalenes                | 3.49      | 32.7 M             | B     |
| C2-Naphthalenes                | 4.22      | 21.0 M             | B     |
| C3-Naphthalenes                | 5.42      | 11.0 M             | B     |
| C4-Naphthalenes                | 6.50      | 9.88 M             | B     |
| Biphenyl                       | 4.01      | 1.80               |       |
| Acenaphthylene                 | 4.59      | <1.37              | U     |
| Acenaphthene                   | 4.88      | <1.37              | U     |
| C1-Biphenyl                    | 4.82      | 6.74 M             | B     |
| C2-Biphenyl                    | 5.88      | 1.97 M             |       |
| C1-Acenaphthenes               | 5.56      | 1.46               |       |
| Fluorene                       | 5.78      | 4.01               |       |
| 2-Methylfluorene               | 7.18      | <1.37              | U     |
| 1,7-Dimethylfluorene           | 8.12      | <1.37              | U     |
| Phenanthrene                   | 7.92      | 14.4               | B     |
| 3-Methylphenanthrene           | 9.26      | 2.24               |       |
| 2-Methylphenanthrene           | 9.34      | 2.91 M             |       |
| 9/4-Methylphenanthrene         | 9.49      | <1.37              | U     |
| 1-Methylphenanthrene           | 9.57      | <1.37              | U     |
| 2-Methylanthracene             | 9.63      | <1.37              | U     |
| 1,7-Dimethylphenanthrene       | 10.72     | 1.47 M             |       |
| 1,8-Dimethylphenanthrene       | 10.72     | <1.37              | U     |
| 2,6-Dimethylphenanthrene       | 10.94     | 2.13 M             |       |
| 3,6-Dimethylphenanthrene       | 11.10     | 3.05 M             |       |
| Retene                         | 13.15     | 4.91               |       |
| 1,2,6-Trimethylphenanthrene    | 13.35     | <1.37              | U     |
| Dibenzothiophene               | 7.62      | <1.37              | U     |
| 2/3-Methylbenzothiophene       | 9.01      | <1.37              | U     |
| 4,6-Dimethyldibenzothiophene   | 9.80      | 29.5               |       |
| C1-Phenanthrenes/Anthracenes   | 9.34      | 7.37 M             | B     |
| C2-Phenanthrenes/Anthracenes   | 11.10     | 3.24 M             |       |
| C3-Phenanthrenes/Anthracenes   | 12.40     | 1.41 M             |       |
| C4-Phenanthrenes/Anthracenes   | 13.15     | 2.06 M             |       |
| C1-Fluorenes                   | 7.06      | 2.95 M             |       |
| C2-Fluorenes                   | 8.12      | <1.37              | U     |



# ALS Life Sciences

## Sample Analysis Report

|                                                                                               |                         |                 |           |
|-----------------------------------------------------------------------------------------------|-------------------------|-----------------|-----------|
| <b>Sample Name</b>                                                                            | <b>PLOT 11 - 4 JARS</b> | Sampling Date   | 25-May-24 |
| ALS Sample ID                                                                                 | L2756078-2              | Extraction Date | 26-Jul-24 |
| Analysis Method                                                                               | PAH by GCMS             |                 |           |
| Analysis Type                                                                                 | sample                  |                 |           |
| Sample Matrix                                                                                 | Tissue                  |                 |           |
| Sample Size                                                                                   | 2.92 g                  |                 |           |
| Percent Moisture                                                                              | 70.9%                   |                 |           |
| Split Ratio                                                                                   | 2                       | Workgroup       | WG3789954 |
| <div>Approved:</div> <div>Andrew Reid</div> <div>--e-signature--</div> <div>08-Aug-2024</div> |                         |                 |           |

|                                       |        |       |   |
|---------------------------------------|--------|-------|---|
| C3-Fluorenes                          | 10.72  | <1.37 | U |
| C1-Dibenzothiophenes                  | 8.78   | 2.26  | M |
| C2-Dibenzothiophenes                  | 9.80   | 30.2  | M |
| C3-Dibenzothiophenes                  | 11.12  | <1.37 | U |
| C4-Dibenzothiophenes                  | 13.15  | <1.37 | U |
| Anthracene                            | 8.04   | <1.37 | U |
| Fluoranthene                          | 11.28  | 3.47  | B |
| 1-Methylfluoranthene                  | 13.07  | <1.37 | U |
| 3-Methylfluoranthene/Benzo(a)fluorene | 13.31  | <1.37 | U |
| Pyrene                                | 11.91  | 1.91  |   |
| C1-Fluoranthenes/Pyrenes              | 13.07  | <1.37 | U |
| C2-Fluoranthenes/Pyrenes              | 16.05  | <1.37 | U |
| C3-Fluoranthenes/Pyrenes              | 17.21  | <1.37 | U |
| C4-Fluoranthenes/Pyrenes              | NotFnd | <1.37 | U |
| Benzo(a)anthracene                    | 15.81  | <1.37 | U |
| 7,12-Dimethylbenz(a)anthracene        | NotFnd | <1.37 | U |
| C1-Benz(a)anthracenes/Chrysenes       | NotFnd | <1.37 | U |
| C2-Benz(a)anthracenes/Chrysenes       | NotFnd | <1.37 | U |
| C3-Benz(a)anthracenes/Chrysenes       | NotFnd | <1.37 | U |
| C4-Benz(a)anthracenes/Chrysenes       | NotFnd | <1.37 | U |
| Chrysene/Triphenylene                 | 15.91  | 3.40  |   |
| 1-Methylchrysene                      | NotFnd | <1.37 | U |
| 5/6-Methylchrysene                    | NotFnd | <1.37 | U |
| 3,11/5,9-Dimethylchrysene             | NotFnd | <1.37 | U |
| Benzo(b)fluoranthene                  | 19.14  | 1.58  |   |
| Benzo(k)fluoranthene                  | 19.22  | 4.01  |   |
| Benzo(e)Pyrene                        | NotFnd | <1.37 | U |
| C1-Benzofluoranthenes/BAPs            | NotFnd | <1.37 | U |
| C2-Benzofluoranthenes/BAPs            | NotFnd | <1.37 | U |
| Benzo(a)pyrene                        | NotFnd | <1.37 | U |
| 7-Methylbenzo(a)pyrene                | NotFnd | <1.37 | U |
| Perylene                              | NotFnd | <1.37 | U |
| Indeno(1,2,3-cd)pyrene                | 23.46  | <1.37 | U |
| Dibenz(ah)anthracene                  | 23.65  | <1.37 | U |
| Benzo(ghi)perylene                    | 24.37  | <1.37 | U |

| Extraction Standards           |     |       | % Rec | Limits |
|--------------------------------|-----|-------|-------|--------|
| d8-Naphthalene(ES)             | 200 | 2.91  | 51.3  | 5-150  |
| d10-2-Methylnaphthalene(ES)    | 200 | 3.47  | 67.5  | 5-150  |
| d8-Acenaphthylene(ES)          | 200 | 4.57  | 78.0  | 5-150  |
| d10-Phenanthrene(ES)           | 200 | 7.87  | 63.7  | 5-150  |
| d10-Anthracene(ES)             | 200 | 7.99  | 58.1  | 5-150  |
| d10-Fluoranthene(ES)           | 200 | 11.22 | 67.6  | 5-150  |
| d12-Benzo(a)anthracene(ES)     | 200 | 15.74 | 67.5  | 5-150  |
| d12-Chrysene(ES)               | 200 | 15.85 | 73.6  | 5-150  |
| d12-Benzo(b)fluoranthene(ES)   | 200 | 19.07 | 60.3  | 5-150  |
| d12-Benzo(k)fluoranthene(ES)   | 200 | 19.15 | 68.0  | 5-150  |
| d12-Benzo(a)pyrene(ES)         | 200 | 19.95 | 72.6  | 5-150  |
| d12-Perylene(ES)               | 200 | 20.18 | 62.0  | 5-150  |
| d12-Indeno(1,2,3-cd)pyrene(ES) | 200 | 23.39 | 64.2  | 5-150  |
| d14-Dibenz(ah)anthracene(ES)   | 200 | 23.55 | 51.0  | 5-150  |
| d12-Benzo(ghi)perylene(ES)     | 200 | 24.27 | 49.7  | 5-150  |

|   |                                                                                                        |
|---|--------------------------------------------------------------------------------------------------------|
| M | Indicates that a peak has been manually integrated.                                                    |
| U | Indicates that this compound was not detected above the MDL.                                           |
| B | Indicates that this compound was detected in the method blank at greater than 10% of the sample value. |

| ALS Life Sciences              |  |                    |  |                                                            |
|--------------------------------|--|--------------------|--|------------------------------------------------------------|
| Sample Analysis Report         |  |                    |  |                                                            |
| Sample Name                    |  | PLOT 70 - 3 JARS   |  | Approved:<br>Andrew Reid<br>--e-signature--<br>08-Aug-2024 |
| ALS Sample ID                  |  | L2756078-3         |  |                                                            |
| Analysis Method                |  | PAH by GCMS        |  |                                                            |
| Analysis Type                  |  | sample             |  |                                                            |
| Sample Matrix                  |  | Tissue             |  |                                                            |
| Sample Size                    |  | 2.97 g             |  |                                                            |
| Percent Moisture               |  | 70.8%              |  |                                                            |
| Split Ratio                    |  | 2                  |  |                                                            |
| Workgroup                      |  | WG3789954          |  |                                                            |
| Run Information                |  |                    |  |                                                            |
| Run 1                          |  |                    |  |                                                            |
| Filename                       |  | 24080621.D         |  |                                                            |
| Run Date                       |  | 8/6/2024 20:28     |  |                                                            |
| Final Volume                   |  | 1 mL               |  |                                                            |
| Dilution Factor                |  | 1                  |  |                                                            |
| Analysis Units                 |  | ng/g               |  |                                                            |
| Instrument                     |  | MSD-5              |  |                                                            |
| Column                         |  | HP5MS US2498036H   |  |                                                            |
| Target Analytes                |  |                    |  |                                                            |
| Ret. Time                      |  | Concentration ng/g |  | Flags                                                      |
| Naphthalene                    |  | 2.92 33.3          |  | B                                                          |
| Quinoline                      |  | 3.19 8.09          |  |                                                            |
| 2-Methylnaphthalene            |  | 3.50 22.1          |  |                                                            |
| 1-Methylnaphthalene            |  | 3.61 11.1          |  |                                                            |
| 1,2-Dimethylnaphthalene        |  | 4.01 3.19 M        |  |                                                            |
| 2,6-Dimethylnaphthalene        |  | 4.22 3.84          |  | B                                                          |
| 2,3,5-Trimethylnaphthalene     |  | 5.56 2.78          |  |                                                            |
| 2,3,6-Trimethylnaphthalene     |  | 5.40 <1.35         |  | U                                                          |
| 1,4,6,7-Tetramethylnaphthalene |  | 7.74 1.59 M        |  |                                                            |
| C1-Naphthalenes                |  | 3.50 28.1 M        |  |                                                            |
| C2-Naphthalenes                |  | 4.33 18.7 M        |  | B                                                          |
| C3-Naphthalenes                |  | 5.42 12.0 M        |  | B                                                          |
| C4-Naphthalenes                |  | 6.50 10.2 M        |  | B                                                          |
| Biphenyl                       |  | 4.01 1.98          |  |                                                            |
| Acenaphthylene                 |  | 4.61 <1.35         |  | U                                                          |
| Acenaphthene                   |  | 4.88 <1.35         |  | U                                                          |
| C1-Biphenyl                    |  | 4.82 7.03 M        |  | B                                                          |
| C2-Biphenyl                    |  | 5.78 <1.35         |  | U                                                          |
| C1-Acenaphthenes               |  | 5.56 1.56          |  |                                                            |
| Fluorene                       |  | 5.78 3.65          |  |                                                            |
| 2-Methylfluorene               |  | 7.06 4.42 M        |  |                                                            |
| 1,7-Dimethylfluorene           |  | 8.12 <1.35         |  | U                                                          |
| Phenanthrene                   |  | 7.92 16.1          |  | B                                                          |
| 3-Methylphenanthrene           |  | 9.26 2.81 M        |  |                                                            |
| 2-Methylphenanthrene           |  | 9.34 3.53 M        |  |                                                            |
| 9/4-Methylphenanthrene         |  | 9.51 <1.35         |  | U                                                          |
| 1-Methylphenanthrene           |  | 9.57 1.55 M        |  |                                                            |
| 2-Methylanthracene             |  | 9.63 <1.35         |  | U                                                          |
| 1,7-Dimethylphenanthrene       |  | 10.61 <1.35        |  | U                                                          |
| 1,8-Dimethylphenanthrene       |  | 10.72 <1.35        |  | U                                                          |
| 2,6-Dimethylphenanthrene       |  | 10.94 3.07 M       |  |                                                            |
| 3,6-Dimethylphenanthrene       |  | 11.10 2.35 M       |  |                                                            |
| Retene                         |  | 13.15 3.76         |  |                                                            |
| 1,2,6-Trimethylphenanthrene    |  | 13.35 <1.35        |  | U                                                          |
| Dibenzothiophene               |  | 7.62 <1.35         |  | U                                                          |
| 2/3-Methylbenzothiophene       |  | 9.02 <1.35         |  | U                                                          |
| 4,6-Dimethyldibenzothiophene   |  | 9.80 32.6          |  |                                                            |
| C1-Phenanthrenes/Anthracenes   |  | 9.34 8.68 M        |  | B                                                          |
| C2-Phenanthrenes/Anthracenes   |  | 11.10 3.30 M       |  |                                                            |
| C3-Phenanthrenes/Anthracenes   |  | 12.39 <1.35        |  | U                                                          |
| C4-Phenanthrenes/Anthracenes   |  | 13.15 1.72 M       |  |                                                            |
| C1-Fluorenes                   |  | 7.06 3.3 M         |  |                                                            |
| C2-Fluorenes                   |  | 8.12 <1.35         |  | U                                                          |

| ALS Life Sciences                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                  |  |       |  |                                                                          |  |           |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------|--|-------|--|--------------------------------------------------------------------------|--|-----------|--|
| Sample Analysis Report                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                  |  |       |  |                                                                          |  |           |  |
| Sample Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | PLOT 70 - 3 JARS |  |       |  | Sampling Date                                                            |  | 25-May-24 |  |
| ALS Sample ID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  | L2756078-3       |  |       |  | Extraction Date                                                          |  | 26-Jul-24 |  |
| Analysis Method                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | PAH by GCMS      |  |       |  |                                                                          |  |           |  |
| Analysis Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  | sample           |  |       |  |                                                                          |  |           |  |
| Sample Matrix                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  | Tissue           |  |       |  | <div>Approved:<br/>Andrew Reid<br/>--e-signature--<br/>08-Aug-2024</div> |  |           |  |
| Sample Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | 2.97 g           |  |       |  |                                                                          |  |           |  |
| Percent Moisture                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | 70.8%            |  |       |  |                                                                          |  |           |  |
| Split Ratio                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | 2                |  |       |  |                                                                          |  |           |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                  |  |       |  | Workgroup                                                                |  | WG3789954 |  |
| <div>C3-Fluorenes10.72&lt;1.35U</div> <div>C1-Dibenzothiophenes8.782.31M</div> <div>C2-Dibenzothiophenes9.8038.0M</div> <div>C3-Dibenzothiophenes10.781.93M</div> <div>C4-Dibenzothiophenes13.17&lt;1.35U</div> <div>Anthracene8.04&lt;1.35U</div> <div>Fluoranthene11.284.38B</div> <div>1-Methylfluoranthene13.09&lt;1.35U</div> <div>3-Methylfluoranthene/Benzo(a)fluorene13.29&lt;1.35U</div> <div>Pyrene11.912.51</div> <div>C1-Fluoranthenes/Pyrenes13.09&lt;1.35U</div> <div>C2-Fluoranthenes/PyrenesNotFnd&lt;1.35U</div> <div>C3-Fluoranthenes/PyrenesNotFnd&lt;1.35U</div> <div>C4-Fluoranthenes/PyrenesNotFnd&lt;1.35U</div> <div>Benzo(a)anthracene15.80&lt;1.35U</div> <div>7,12-Dimethylbenz(a)anthraceneNotFnd&lt;1.35U</div> <div>C1-Benz(a)anthracenes/ChrysenesNotFnd&lt;1.35U</div> <div>C2-Benz(a)anthracenes/ChrysenesNotFnd&lt;1.35U</div> <div>C3-Benz(a)anthracenes/ChrysenesNotFnd&lt;1.35U</div> <div>C4-Benz(a)anthracenes/ChrysenesNotFnd&lt;1.35U</div> <div>Chrysene/Triphenylene15.913.06</div> <div>1-MethylchryseneNotFnd&lt;1.35U</div> <div>5/6-MethylchryseneNotFnd&lt;1.35U</div> <div>3,11/5,9-DimethylchryseneNotFnd&lt;1.35U</div> <div>Benzo(b)flouranthene19.141.81</div> <div>Benzo(k)fluoranthene19.223.32M</div> <div>Benzo(e)PyreneNotFnd&lt;1.35U</div> <div>C1-Benzofluoranthenes/BAPsNotFnd&lt;1.35U</div> <div>C2-Benzofluoranthenes/BAPsNotFnd&lt;1.35U</div> <div>Benzo(a)pyreneNotFnd&lt;1.35U</div> <div>7-Methylbenzo(a)pyreneNotFnd&lt;1.35U</div> <div>PeryleneNotFnd&lt;1.35U</div> <div>Indeno(1,2,3-cd)pyrene23.46&lt;1.35U</div> <div>Dibenz(ah)anthracene23.66&lt;1.35U</div> <div>Benzo(ghi)perylene24.37&lt;1.35U</div> |  |                  |  |       |  |                                                                          |  |           |  |
| Extraction Standards                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                  |  | % Rec |  | Limits                                                                   |  |           |  |
| d8-Naphthalene(ES)2002.91                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |                  |  | 41.6  |  | 5-150                                                                    |  |           |  |
| d10-2-Methylnaphthalene(ES)2003.47                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                  |  | 53.6  |  | 5-150                                                                    |  |           |  |
| d8-Acenaphthylene(ES)2004.57                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                  |  | 64.7  |  | 5-150                                                                    |  |           |  |
| d10-Phenanthrene(ES)2007.87                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                  |  | 57.5  |  | 5-150                                                                    |  |           |  |
| d10-Anthracene(ES)2007.99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |                  |  | 50.3  |  | 5-150                                                                    |  |           |  |
| d10-Fluoranthene(ES)20011.22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                  |  | 63.1  |  | 5-150                                                                    |  |           |  |
| d12-Benzo(a)anthracene(ES)20015.74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                  |  | 66.5  |  | 5-150                                                                    |  |           |  |
| d12-Chrysene(ES)20015.85                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                  |  | 70.6  |  | 5-150                                                                    |  |           |  |
| d12-Benzo(b)fluoranthene(ES)20019.07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                  |  | 52.5  |  | 5-150                                                                    |  |           |  |
| d12-Benzo(k)fluoranthene(ES)20019.16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                  |  | 61.5  |  | 5-150                                                                    |  |           |  |
| d12-Benzo(a)pyrene(ES)20019.95                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                  |  | 70.9  |  | 5-150                                                                    |  |           |  |
| d12-Perylene(ES)20020.19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                  |  | 61.6  |  | 5-150                                                                    |  |           |  |
| d12-Indeno(1,2,3-cd)pyrene(ES)20023.38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                  |  | 62.9  |  | 5-150                                                                    |  |           |  |
| d14-Dibenz(ah)anthracene(ES)20023.55                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                  |  | 48.4  |  | 5-150                                                                    |  |           |  |
| d12-Benzo(ghi)perylene(ES)20024.27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                  |  | 41.8  |  | 5-150                                                                    |  |           |  |
| <div>MIndicates that a peak has been manually integrated.</div> <div>UIndicates that this compound was not detected above the MDL.</div> <div>BIndicates that this compound was detected in the method blank at greater than 10% of the sample value.</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                  |  |       |  |                                                                          |  |           |  |

| ALS Life Sciences              |           |                    |       |                                                            |           |
|--------------------------------|-----------|--------------------|-------|------------------------------------------------------------|-----------|
| Sample Analysis Report         |           |                    |       |                                                            |           |
| Sample Name                    |           | PLOT 71 - 5 JARS   |       | Approved:<br>Andrew Reid<br>--e-signature--<br>08-Aug-2024 |           |
| ALS Sample ID                  |           | L2756078-4         |       |                                                            |           |
| Analysis Method                |           | PAH by GCMS        |       |                                                            |           |
| Analysis Type                  |           | sample             |       |                                                            |           |
| Sample Matrix                  |           | Tissue             |       |                                                            |           |
| Sample Size                    |           | 2.76 g             |       |                                                            |           |
| Percent Moisture               |           | 72.6%              |       |                                                            |           |
| Split Ratio                    |           | 2                  |       | Workgroup                                                  | WG3789954 |
| Run Information                |           | Run 1              |       |                                                            |           |
| Filename                       |           | 24080622.D         |       |                                                            |           |
| Run Date                       |           | 8/6/2024 21:06     |       |                                                            |           |
| Final Volume                   |           | 1 mL               |       |                                                            |           |
| Dilution Factor                |           | 1                  |       |                                                            |           |
| Analysis Units                 |           | ng/g               |       |                                                            |           |
| Instrument                     |           | MSD-5              |       |                                                            |           |
| Column                         |           | HP5MS US2498036H   |       |                                                            |           |
| Target Analytes                | Ret. Time | Concentration ng/g | Flags |                                                            |           |
| Naphthalene                    | 2.92      | 63.8               | B     |                                                            |           |
| Quinoline                      | NotFnd    | <1.45              | U     |                                                            |           |
| 2-Methylnaphthalene            | 3.50      | 42.7               | B     |                                                            |           |
| 1-Methylnaphthalene            | 3.61      | 21.9               |       |                                                            |           |
| 1,2-Dimethylnaphthalene        | 4.01      | 3.51               | M     |                                                            |           |
| 2,6-Dimethylnaphthalene        | 4.22      | 5.10               | B     |                                                            |           |
| 2,3,5-Trimethylnaphthalene     | 5.56      | 3.05               |       |                                                            |           |
| 2,3,6-Trimethylnaphthalene     | 5.40      | <1.45              | U     |                                                            |           |
| 1,4,6,7-Tetramethylnaphthalene | NotFnd    | <1.45              | U     |                                                            |           |
| C1-Naphthalenes                | 3.50      | 54.0               | M     |                                                            |           |
| C2-Naphthalenes                | 4.33      | 27.8               | M B   |                                                            |           |
| C3-Naphthalenes                | 5.42      | 10.2               | M B   |                                                            |           |
| C4-Naphthalenes                | 6.50      | 8.57               | M B   |                                                            |           |
| Biphenyl                       | 4.01      | 2.33               |       |                                                            |           |
| Acenaphthylene                 | 4.60      | <1.45              | U     |                                                            |           |
| Acenaphthene                   | 4.88      | <1.45              | U     |                                                            |           |
| C1-Biphenyl                    | 4.82      | 6.87               | M B   |                                                            |           |
| C2-Biphenyl                    | 5.78      | <1.45              | U     |                                                            |           |
| C1-Acenaphthenes               | 5.56      | 1.68               |       |                                                            |           |
| Fluorene                       | 5.78      | 4.76               |       |                                                            |           |
| 2-Methylfluorene               | 7.06      | 5.43               | M     |                                                            |           |
| 1,7-Dimethylfluorene           | 8.12      | <1.45              | U     |                                                            |           |
| Phenanthrene                   | 7.92      | 17.2               | B     |                                                            |           |
| 3-Methylphenanthrene           | 9.26      | 2.95               |       |                                                            |           |
| 2-Methylphenanthrene           | 9.34      | 4.07               | M     |                                                            |           |
| 9/4-Methylphenanthrene         | 9.51      | <1.45              | U     |                                                            |           |
| 1-Methylphenanthrene           | 9.57      | 2.07               | M     |                                                            |           |
| 2-Methylanthracene             | 9.63      | <1.45              | U     |                                                            |           |
| 1,7-Dimethylphenanthrene       | 10.61     | <1.45              | U     |                                                            |           |
| 1,8-Dimethylphenanthrene       | 10.72     | <1.45              | U     |                                                            |           |
| 2,6-Dimethylphenanthrene       | 10.95     | 2.84               | M     |                                                            |           |
| 3,6-Dimethylphenanthrene       | 11.10     | 3.14               | M     |                                                            |           |
| Retene                         | 13.15     | 5.14               |       |                                                            |           |
| 1,2,6-Trimethylphenanthrene    | 13.35     | <1.45              | U     |                                                            |           |
| Dibenzothiophene               | 7.62      | 1.66               |       |                                                            |           |
| 2/3-Methylbenzothiophene       | 9.02      | <1.45              | U     |                                                            |           |
| 4,6-Dimethyldibenzothiophene   | 9.80      | 1.95               |       |                                                            |           |
| C1-Phenanthrenes/Anthracenes   | 9.34      | 10.0               | M B   |                                                            |           |
| C2-Phenanthrenes/Anthracenes   | 11.10     | 3.53               | M     |                                                            |           |
| C3-Phenanthrenes/Anthracenes   | 12.40     | <1.45              | U     |                                                            |           |
| C4-Phenanthrenes/Anthracenes   | 13.15     | 2.05               | M     |                                                            |           |
| C1-Fluorenes                   | 7.06      | 3.11               | M     |                                                            |           |
| C2-Fluorenes                   | 8.12      | <1.45              | U     |                                                            |           |

| ALS Life Sciences                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        |                  |   |       |        |                                                                          |  |           |  |              |       |       |   |  |                      |      |      |   |  |                      |      |      |   |  |                      |       |       |   |  |                      |        |       |   |  |            |      |       |   |  |              |       |      |  |   |                      |       |       |   |  |                                       |       |       |   |  |        |       |      |  |  |                          |       |      |   |  |                          |        |       |   |  |                          |        |       |   |  |                          |        |       |   |  |                    |       |       |   |  |                                |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                       |       |      |  |  |                  |        |       |   |  |                    |        |       |   |  |                           |        |       |   |  |                      |       |       |   |  |                      |       |       |   |  |                |        |       |   |  |                            |        |       |   |  |                            |        |       |   |  |                |        |       |   |  |                        |        |       |   |  |          |        |       |   |  |                        |       |       |   |  |                      |       |       |   |  |                    |       |       |   |  |
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| Sample Analysis Report                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        |                  |   |       |        |                                                                          |  |           |  |              |       |       |   |  |                      |      |      |   |  |                      |      |      |   |  |                      |       |       |   |  |                      |        |       |   |  |            |      |       |   |  |              |       |      |  |   |                      |       |       |   |  |                                       |       |       |   |  |        |       |      |  |  |                          |       |      |   |  |                          |        |       |   |  |                          |        |       |   |  |                          |        |       |   |  |                    |       |       |   |  |                                |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                       |       |      |  |  |                  |        |       |   |  |                    |        |       |   |  |                           |        |       |   |  |                      |       |       |   |  |                      |       |       |   |  |                |        |       |   |  |                            |        |       |   |  |                            |        |       |   |  |                |        |       |   |  |                        |        |       |   |  |          |        |       |   |  |                        |       |       |   |  |                      |       |       |   |  |                    |       |       |   |  |
| Sample Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        | PLOT 71 - 5 JARS |   |       |        | Sampling Date                                                            |  | 25-May-24 |  |              |       |       |   |  |                      |      |      |   |  |                      |      |      |   |  |                      |       |       |   |  |                      |        |       |   |  |            |      |       |   |  |              |       |      |  |   |                      |       |       |   |  |                                       |       |       |   |  |        |       |      |  |  |                          |       |      |   |  |                          |        |       |   |  |                          |        |       |   |  |                          |        |       |   |  |                    |       |       |   |  |                                |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                       |       |      |  |  |                  |        |       |   |  |                    |        |       |   |  |                           |        |       |   |  |                      |       |       |   |  |                      |       |       |   |  |                |        |       |   |  |                            |        |       |   |  |                            |        |       |   |  |                |        |       |   |  |                        |        |       |   |  |          |        |       |   |  |                        |       |       |   |  |                      |       |       |   |  |                    |       |       |   |  |
| ALS Sample ID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        | L2756078-4       |   |       |        | Extraction Date                                                          |  | 26-Jul-24 |  |              |       |       |   |  |                      |      |      |   |  |                      |      |      |   |  |                      |       |       |   |  |                      |        |       |   |  |            |      |       |   |  |              |       |      |  |   |                      |       |       |   |  |                                       |       |       |   |  |        |       |      |  |  |                          |       |      |   |  |                          |        |       |   |  |                          |        |       |   |  |                          |        |       |   |  |                    |       |       |   |  |                                |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                       |       |      |  |  |                  |        |       |   |  |                    |        |       |   |  |                           |        |       |   |  |                      |       |       |   |  |                      |       |       |   |  |                |        |       |   |  |                            |        |       |   |  |                            |        |       |   |  |                |        |       |   |  |                        |        |       |   |  |          |        |       |   |  |                        |       |       |   |  |                      |       |       |   |  |                    |       |       |   |  |
| Analysis Method                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        | PAH by GCMS      |   |       |        |                                                                          |  |           |  |              |       |       |   |  |                      |      |      |   |  |                      |      |      |   |  |                      |       |       |   |  |                      |        |       |   |  |            |      |       |   |  |              |       |      |  |   |                      |       |       |   |  |                                       |       |       |   |  |        |       |      |  |  |                          |       |      |   |  |                          |        |       |   |  |                          |        |       |   |  |                          |        |       |   |  |                    |       |       |   |  |                                |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                       |       |      |  |  |                  |        |       |   |  |                    |        |       |   |  |                           |        |       |   |  |                      |       |       |   |  |                      |       |       |   |  |                |        |       |   |  |                            |        |       |   |  |                            |        |       |   |  |                |        |       |   |  |                        |        |       |   |  |          |        |       |   |  |                        |       |       |   |  |                      |       |       |   |  |                    |       |       |   |  |
| Analysis Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        | sample           |   |       |        |                                                                          |  |           |  |              |       |       |   |  |                      |      |      |   |  |                      |      |      |   |  |                      |       |       |   |  |                      |        |       |   |  |            |      |       |   |  |              |       |      |  |   |                      |       |       |   |  |                                       |       |       |   |  |        |       |      |  |  |                          |       |      |   |  |                          |        |       |   |  |                          |        |       |   |  |                          |        |       |   |  |                    |       |       |   |  |                                |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                       |       |      |  |  |                  |        |       |   |  |                    |        |       |   |  |                           |        |       |   |  |                      |       |       |   |  |                      |       |       |   |  |                |        |       |   |  |                            |        |       |   |  |                            |        |       |   |  |                |        |       |   |  |                        |        |       |   |  |          |        |       |   |  |                        |       |       |   |  |                      |       |       |   |  |                    |       |       |   |  |
| Sample Matrix                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        | Tissue           |   |       |        | <div>Approved:<br/>Andrew Reid<br/>--e-signature--<br/>08-Aug-2024</div> |  |           |  |              |       |       |   |  |                      |      |      |   |  |                      |      |      |   |  |                      |       |       |   |  |                      |        |       |   |  |            |      |       |   |  |              |       |      |  |   |                      |       |       |   |  |                                       |       |       |   |  |        |       |      |  |  |                          |       |      |   |  |                          |        |       |   |  |                          |        |       |   |  |                          |        |       |   |  |                    |       |       |   |  |                                |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                       |       |      |  |  |                  |        |       |   |  |                    |        |       |   |  |                           |        |       |   |  |                      |       |       |   |  |                      |       |       |   |  |                |        |       |   |  |                            |        |       |   |  |                            |        |       |   |  |                |        |       |   |  |                        |        |       |   |  |          |        |       |   |  |                        |       |       |   |  |                      |       |       |   |  |                    |       |       |   |  |
| Sample Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        | 2.76 g           |   |       |        |                                                                          |  |           |  |              |       |       |   |  |                      |      |      |   |  |                      |      |      |   |  |                      |       |       |   |  |                      |        |       |   |  |            |      |       |   |  |              |       |      |  |   |                      |       |       |   |  |                                       |       |       |   |  |        |       |      |  |  |                          |       |      |   |  |                          |        |       |   |  |                          |        |       |   |  |                          |        |       |   |  |                    |       |       |   |  |                                |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                       |       |      |  |  |                  |        |       |   |  |                    |        |       |   |  |                           |        |       |   |  |                      |       |       |   |  |                      |       |       |   |  |                |        |       |   |  |                            |        |       |   |  |                            |        |       |   |  |                |        |       |   |  |                        |        |       |   |  |          |        |       |   |  |                        |       |       |   |  |                      |       |       |   |  |                    |       |       |   |  |
| Percent Moisture                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        | 72.6%            |   |       |        |                                                                          |  |           |  |              |       |       |   |  |                      |      |      |   |  |                      |      |      |   |  |                      |       |       |   |  |                      |        |       |   |  |            |      |       |   |  |              |       |      |  |   |                      |       |       |   |  |                                       |       |       |   |  |        |       |      |  |  |                          |       |      |   |  |                          |        |       |   |  |                          |        |       |   |  |                          |        |       |   |  |                    |       |       |   |  |                                |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                       |       |      |  |  |                  |        |       |   |  |                    |        |       |   |  |                           |        |       |   |  |                      |       |       |   |  |                      |       |       |   |  |                |        |       |   |  |                            |        |       |   |  |                            |        |       |   |  |                |        |       |   |  |                        |        |       |   |  |          |        |       |   |  |                        |       |       |   |  |                      |       |       |   |  |                    |       |       |   |  |
| Split Ratio                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        | 2                |   |       |        |                                                                          |  |           |  |              |       |       |   |  |                      |      |      |   |  |                      |      |      |   |  |                      |       |       |   |  |                      |        |       |   |  |            |      |       |   |  |              |       |      |  |   |                      |       |       |   |  |                                       |       |       |   |  |        |       |      |  |  |                          |       |      |   |  |                          |        |       |   |  |                          |        |       |   |  |                          |        |       |   |  |                    |       |       |   |  |                                |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                       |       |      |  |  |                  |        |       |   |  |                    |        |       |   |  |                           |        |       |   |  |                      |       |       |   |  |                      |       |       |   |  |                |        |       |   |  |                            |        |       |   |  |                            |        |       |   |  |                |        |       |   |  |                        |        |       |   |  |          |        |       |   |  |                        |       |       |   |  |                      |       |       |   |  |                    |       |       |   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |                  |   |       |        | Workgroup                                                                |  | WG3789954 |  |              |       |       |   |  |                      |      |      |   |  |                      |      |      |   |  |                      |       |       |   |  |                      |        |       |   |  |            |      |       |   |  |              |       |      |  |   |                      |       |       |   |  |                                       |       |       |   |  |        |       |      |  |  |                          |       |      |   |  |                          |        |       |   |  |                          |        |       |   |  |                          |        |       |   |  |                    |       |       |   |  |                                |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                       |       |      |  |  |                  |        |       |   |  |                    |        |       |   |  |                           |        |       |   |  |                      |       |       |   |  |                      |       |       |   |  |                |        |       |   |  |                            |        |       |   |  |                            |        |       |   |  |                |        |       |   |  |                        |        |       |   |  |          |        |       |   |  |                        |       |       |   |  |                      |       |       |   |  |                    |       |       |   |  |
| <table><tr><td>C3-Fluorenes</td><td>10.72</td><td>&lt;1.45</td><td>U</td><td></td></tr><tr><td>C1-Dibenzothiophenes</td><td>8.78</td><td>1.93</td><td>M</td><td></td></tr><tr><td>C2-Dibenzothiophenes</td><td>9.80</td><td>3.19</td><td>M</td><td></td></tr><tr><td>C3-Dibenzothiophenes</td><td>11.07</td><td>&lt;1.45</td><td>U</td><td></td></tr><tr><td>C4-Dibenzothiophenes</td><td>NotFnd</td><td>&lt;1.45</td><td>U</td><td></td></tr><tr><td>Anthracene</td><td>8.04</td><td>&lt;1.45</td><td>U</td><td></td></tr><tr><td>Fluoranthene</td><td>11.28</td><td>4.53</td><td></td><td>B</td></tr><tr><td>1-Methylfluoranthene</td><td>13.07</td><td>&lt;1.45</td><td>U</td><td></td></tr><tr><td>3-Methylfluoranthene/Benzo(a)fluorene</td><td>13.32</td><td>&lt;1.45</td><td>U</td><td></td></tr><tr><td>Pyrene</td><td>11.91</td><td>2.76</td><td></td><td></td></tr><tr><td>C1-Fluoranthenes/Pyrenes</td><td>13.05</td><td>1.57</td><td>M</td><td></td></tr><tr><td>C2-Fluoranthenes/Pyrenes</td><td>NotFnd</td><td>&lt;1.45</td><td>U</td><td></td></tr><tr><td>C3-Fluoranthenes/Pyrenes</td><td>NotFnd</td><td>&lt;1.45</td><td>U</td><td></td></tr><tr><td>C4-Fluoranthenes/Pyrenes</td><td>NotFnd</td><td>&lt;1.45</td><td>U</td><td></td></tr><tr><td>Benzo(a)anthracene</td><td>15.80</td><td>&lt;1.45</td><td>U</td><td></td></tr><tr><td>7,12-Dimethylbenz(a)anthracene</td><td>NotFnd</td><td>&lt;1.45</td><td>U</td><td></td></tr><tr><td>C1-Benz(a)anthracenes/Chrysenes</td><td>NotFnd</td><td>&lt;1.45</td><td>U</td><td></td></tr><tr><td>C2-Benz(a)anthracenes/Chrysenes</td><td>NotFnd</td><td>&lt;1.45</td><td>U</td><td></td></tr><tr><td>C3-Benz(a)anthracenes/Chrysenes</td><td>NotFnd</td><td>&lt;1.45</td><td>U</td><td></td></tr><tr><td>C4-Benz(a)anthracenes/Chrysenes</td><td>NotFnd</td><td>&lt;1.45</td><td>U</td><td></td></tr><tr><td>Chrysene/Triphenylene</td><td>15.91</td><td>3.65</td><td></td><td></td></tr><tr><td>1-Methylchrysene</td><td>NotFnd</td><td>&lt;1.45</td><td>U</td><td></td></tr><tr><td>5/6-Methylchrysene</td><td>NotFnd</td><td>&lt;1.45</td><td>U</td><td></td></tr><tr><td>3,11/5,9-Dimethylchrysene</td><td>NotFnd</td><td>&lt;1.45</td><td>U</td><td></td></tr><tr><td>Benzo(b)fluoranthene</td><td>19.14</td><td>&lt;1.45</td><td>U</td><td></td></tr><tr><td>Benzo(k)fluoranthene</td><td>19.22</td><td>&lt;1.45</td><td>U</td><td></td></tr><tr><td>Benzo(e)Pyrene</td><td>NotFnd</td><td>&lt;1.45</td><td>U</td><td></td></tr><tr><td>C1-Benzofluoranthenes/BAPs</td><td>NotFnd</td><td>&lt;1.45</td><td>U</td><td></td></tr><tr><td>C2-Benzofluoranthenes/BAPs</td><td>NotFnd</td><td>&lt;1.45</td><td>U</td><td></td></tr><tr><td>Benzo(a)pyrene</td><td>NotFnd</td><td>&lt;1.45</td><td>U</td><td></td></tr><tr><td>7-Methylbenzo(a)pyrene</td><td>NotFnd</td><td>&lt;1.45</td><td>U</td><td></td></tr><tr><td>Perylene</td><td>NotFnd</td><td>&lt;1.45</td><td>U</td><td></td></tr><tr><td>Indeno(1,2,3-cd)pyrene</td><td>23.46</td><td>&lt;1.45</td><td>U</td><td></td></tr><tr><td>Dibenz(ah)anthracene</td><td>23.66</td><td>&lt;1.45</td><td>U</td><td></td></tr><tr><td>Benzo(ghi)perylene</td><td>24.37</td><td>&lt;1.45</td><td>U</td><td></td></tr></table> |        |                  |   |       |        |                                                                          |  |           |  | C3-Fluorenes | 10.72 | <1.45 | U |  | C1-Dibenzothiophenes | 8.78 | 1.93 | M |  | C2-Dibenzothiophenes | 9.80 | 3.19 | M |  | C3-Dibenzothiophenes | 11.07 | <1.45 | U |  | C4-Dibenzothiophenes | NotFnd | <1.45 | U |  | Anthracene | 8.04 | <1.45 | U |  | Fluoranthene | 11.28 | 4.53 |  | B | 1-Methylfluoranthene | 13.07 | <1.45 | U |  | 3-Methylfluoranthene/Benzo(a)fluorene | 13.32 | <1.45 | U |  | Pyrene | 11.91 | 2.76 |  |  | C1-Fluoranthenes/Pyrenes | 13.05 | 1.57 | M |  | C2-Fluoranthenes/Pyrenes | NotFnd | <1.45 | U |  | C3-Fluoranthenes/Pyrenes | NotFnd | <1.45 | U |  | C4-Fluoranthenes/Pyrenes | NotFnd | <1.45 | U |  | Benzo(a)anthracene | 15.80 | <1.45 | U |  | 7,12-Dimethylbenz(a)anthracene | NotFnd | <1.45 | U |  | C1-Benz(a)anthracenes/Chrysenes | NotFnd | <1.45 | U |  | C2-Benz(a)anthracenes/Chrysenes | NotFnd | <1.45 | U |  | C3-Benz(a)anthracenes/Chrysenes | NotFnd | <1.45 | U |  | C4-Benz(a)anthracenes/Chrysenes | NotFnd | <1.45 | U |  | Chrysene/Triphenylene | 15.91 | 3.65 |  |  | 1-Methylchrysene | NotFnd | <1.45 | U |  | 5/6-Methylchrysene | NotFnd | <1.45 | U |  | 3,11/5,9-Dimethylchrysene | NotFnd | <1.45 | U |  | Benzo(b)fluoranthene | 19.14 | <1.45 | U |  | Benzo(k)fluoranthene | 19.22 | <1.45 | U |  | Benzo(e)Pyrene | NotFnd | <1.45 | U |  | C1-Benzofluoranthenes/BAPs | NotFnd | <1.45 | U |  | C2-Benzofluoranthenes/BAPs | NotFnd | <1.45 | U |  | Benzo(a)pyrene | NotFnd | <1.45 | U |  | 7-Methylbenzo(a)pyrene | NotFnd | <1.45 | U |  | Perylene | NotFnd | <1.45 | U |  | Indeno(1,2,3-cd)pyrene | 23.46 | <1.45 | U |  | Dibenz(ah)anthracene | 23.66 | <1.45 | U |  | Benzo(ghi)perylene | 24.37 | <1.45 | U |  |
| C3-Fluorenes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 10.72  | <1.45            | U |       |        |                                                                          |  |           |  |              |       |       |   |  |                      |      |      |   |  |                      |      |      |   |  |                      |       |       |   |  |                      |        |       |   |  |            |      |       |   |  |              |       |      |  |   |                      |       |       |   |  |                                       |       |       |   |  |        |       |      |  |  |                          |       |      |   |  |                          |        |       |   |  |                          |        |       |   |  |                          |        |       |   |  |                    |       |       |   |  |                                |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                       |       |      |  |  |                  |        |       |   |  |                    |        |       |   |  |                           |        |       |   |  |                      |       |       |   |  |                      |       |       |   |  |                |        |       |   |  |                            |        |       |   |  |                            |        |       |   |  |                |        |       |   |  |                        |        |       |   |  |          |        |       |   |  |                        |       |       |   |  |                      |       |       |   |  |                    |       |       |   |  |
| C1-Dibenzothiophenes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 8.78   | 1.93             | M |       |        |                                                                          |  |           |  |              |       |       |   |  |                      |      |      |   |  |                      |      |      |   |  |                      |       |       |   |  |                      |        |       |   |  |            |      |       |   |  |              |       |      |  |   |                      |       |       |   |  |                                       |       |       |   |  |        |       |      |  |  |                          |       |      |   |  |                          |        |       |   |  |                          |        |       |   |  |                          |        |       |   |  |                    |       |       |   |  |                                |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                       |       |      |  |  |                  |        |       |   |  |                    |        |       |   |  |                           |        |       |   |  |                      |       |       |   |  |                      |       |       |   |  |                |        |       |   |  |                            |        |       |   |  |                            |        |       |   |  |                |        |       |   |  |                        |        |       |   |  |          |        |       |   |  |                        |       |       |   |  |                      |       |       |   |  |                    |       |       |   |  |
| C2-Dibenzothiophenes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 9.80   | 3.19             | M |       |        |                                                                          |  |           |  |              |       |       |   |  |                      |      |      |   |  |                      |      |      |   |  |                      |       |       |   |  |                      |        |       |   |  |            |      |       |   |  |              |       |      |  |   |                      |       |       |   |  |                                       |       |       |   |  |        |       |      |  |  |                          |       |      |   |  |                          |        |       |   |  |                          |        |       |   |  |                          |        |       |   |  |                    |       |       |   |  |                                |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                       |       |      |  |  |                  |        |       |   |  |                    |        |       |   |  |                           |        |       |   |  |                      |       |       |   |  |                      |       |       |   |  |                |        |       |   |  |                            |        |       |   |  |                            |        |       |   |  |                |        |       |   |  |                        |        |       |   |  |          |        |       |   |  |                        |       |       |   |  |                      |       |       |   |  |                    |       |       |   |  |
| C3-Dibenzothiophenes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 11.07  | <1.45            | U |       |        |                                                                          |  |           |  |              |       |       |   |  |                      |      |      |   |  |                      |      |      |   |  |                      |       |       |   |  |                      |        |       |   |  |            |      |       |   |  |              |       |      |  |   |                      |       |       |   |  |                                       |       |       |   |  |        |       |      |  |  |                          |       |      |   |  |                          |        |       |   |  |                          |        |       |   |  |                          |        |       |   |  |                    |       |       |   |  |                                |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                       |       |      |  |  |                  |        |       |   |  |                    |        |       |   |  |                           |        |       |   |  |                      |       |       |   |  |                      |       |       |   |  |                |        |       |   |  |                            |        |       |   |  |                            |        |       |   |  |                |        |       |   |  |                        |        |       |   |  |          |        |       |   |  |                        |       |       |   |  |                      |       |       |   |  |                    |       |       |   |  |
| C4-Dibenzothiophenes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | NotFnd | <1.45            | U |       |        |                                                                          |  |           |  |              |       |       |   |  |                      |      |      |   |  |                      |      |      |   |  |                      |       |       |   |  |                      |        |       |   |  |            |      |       |   |  |              |       |      |  |   |                      |       |       |   |  |                                       |       |       |   |  |        |       |      |  |  |                          |       |      |   |  |                          |        |       |   |  |                          |        |       |   |  |                          |        |       |   |  |                    |       |       |   |  |                                |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                       |       |      |  |  |                  |        |       |   |  |                    |        |       |   |  |                           |        |       |   |  |                      |       |       |   |  |                      |       |       |   |  |                |        |       |   |  |                            |        |       |   |  |                            |        |       |   |  |                |        |       |   |  |                        |        |       |   |  |          |        |       |   |  |                        |       |       |   |  |                      |       |       |   |  |                    |       |       |   |  |
| Anthracene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 8.04   | <1.45            | U |       |        |                                                                          |  |           |  |              |       |       |   |  |                      |      |      |   |  |                      |      |      |   |  |                      |       |       |   |  |                      |        |       |   |  |            |      |       |   |  |              |       |      |  |   |                      |       |       |   |  |                                       |       |       |   |  |        |       |      |  |  |                          |       |      |   |  |                          |        |       |   |  |                          |        |       |   |  |                          |        |       |   |  |                    |       |       |   |  |                                |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                       |       |      |  |  |                  |        |       |   |  |                    |        |       |   |  |                           |        |       |   |  |                      |       |       |   |  |                      |       |       |   |  |                |        |       |   |  |                            |        |       |   |  |                            |        |       |   |  |                |        |       |   |  |                        |        |       |   |  |          |        |       |   |  |                        |       |       |   |  |                      |       |       |   |  |                    |       |       |   |  |
| Fluoranthene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 11.28  | 4.53             |   | B     |        |                                                                          |  |           |  |              |       |       |   |  |                      |      |      |   |  |                      |      |      |   |  |                      |       |       |   |  |                      |        |       |   |  |            |      |       |   |  |              |       |      |  |   |                      |       |       |   |  |                                       |       |       |   |  |        |       |      |  |  |                          |       |      |   |  |                          |        |       |   |  |                          |        |       |   |  |                          |        |       |   |  |                    |       |       |   |  |                                |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                       |       |      |  |  |                  |        |       |   |  |                    |        |       |   |  |                           |        |       |   |  |                      |       |       |   |  |                      |       |       |   |  |                |        |       |   |  |                            |        |       |   |  |                            |        |       |   |  |                |        |       |   |  |                        |        |       |   |  |          |        |       |   |  |                        |       |       |   |  |                      |       |       |   |  |                    |       |       |   |  |
| 1-Methylfluoranthene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 13.07  | <1.45            | U |       |        |                                                                          |  |           |  |              |       |       |   |  |                      |      |      |   |  |                      |      |      |   |  |                      |       |       |   |  |                      |        |       |   |  |            |      |       |   |  |              |       |      |  |   |                      |       |       |   |  |                                       |       |       |   |  |        |       |      |  |  |                          |       |      |   |  |                          |        |       |   |  |                          |        |       |   |  |                          |        |       |   |  |                    |       |       |   |  |                                |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                       |       |      |  |  |                  |        |       |   |  |                    |        |       |   |  |                           |        |       |   |  |                      |       |       |   |  |                      |       |       |   |  |                |        |       |   |  |                            |        |       |   |  |                            |        |       |   |  |                |        |       |   |  |                        |        |       |   |  |          |        |       |   |  |                        |       |       |   |  |                      |       |       |   |  |                    |       |       |   |  |
| 3-Methylfluoranthene/Benzo(a)fluorene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 13.32  | <1.45            | U |       |        |                                                                          |  |           |  |              |       |       |   |  |                      |      |      |   |  |                      |      |      |   |  |                      |       |       |   |  |                      |        |       |   |  |            |      |       |   |  |              |       |      |  |   |                      |       |       |   |  |                                       |       |       |   |  |        |       |      |  |  |                          |       |      |   |  |                          |        |       |   |  |                          |        |       |   |  |                          |        |       |   |  |                    |       |       |   |  |                                |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                       |       |      |  |  |                  |        |       |   |  |                    |        |       |   |  |                           |        |       |   |  |                      |       |       |   |  |                      |       |       |   |  |                |        |       |   |  |                            |        |       |   |  |                            |        |       |   |  |                |        |       |   |  |                        |        |       |   |  |          |        |       |   |  |                        |       |       |   |  |                      |       |       |   |  |                    |       |       |   |  |
| Pyrene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 11.91  | 2.76             |   |       |        |                                                                          |  |           |  |              |       |       |   |  |                      |      |      |   |  |                      |      |      |   |  |                      |       |       |   |  |                      |        |       |   |  |            |      |       |   |  |              |       |      |  |   |                      |       |       |   |  |                                       |       |       |   |  |        |       |      |  |  |                          |       |      |   |  |                          |        |       |   |  |                          |        |       |   |  |                          |        |       |   |  |                    |       |       |   |  |                                |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                       |       |      |  |  |                  |        |       |   |  |                    |        |       |   |  |                           |        |       |   |  |                      |       |       |   |  |                      |       |       |   |  |                |        |       |   |  |                            |        |       |   |  |                            |        |       |   |  |                |        |       |   |  |                        |        |       |   |  |          |        |       |   |  |                        |       |       |   |  |                      |       |       |   |  |                    |       |       |   |  |
| C1-Fluoranthenes/Pyrenes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 13.05  | 1.57             | M |       |        |                                                                          |  |           |  |              |       |       |   |  |                      |      |      |   |  |                      |      |      |   |  |                      |       |       |   |  |                      |        |       |   |  |            |      |       |   |  |              |       |      |  |   |                      |       |       |   |  |                                       |       |       |   |  |        |       |      |  |  |                          |       |      |   |  |                          |        |       |   |  |                          |        |       |   |  |                          |        |       |   |  |                    |       |       |   |  |                                |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                       |       |      |  |  |                  |        |       |   |  |                    |        |       |   |  |                           |        |       |   |  |                      |       |       |   |  |                      |       |       |   |  |                |        |       |   |  |                            |        |       |   |  |                            |        |       |   |  |                |        |       |   |  |                        |        |       |   |  |          |        |       |   |  |                        |       |       |   |  |                      |       |       |   |  |                    |       |       |   |  |
| C2-Fluoranthenes/Pyrenes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | NotFnd | <1.45            | U |       |        |                                                                          |  |           |  |              |       |       |   |  |                      |      |      |   |  |                      |      |      |   |  |                      |       |       |   |  |                      |        |       |   |  |            |      |       |   |  |              |       |      |  |   |                      |       |       |   |  |                                       |       |       |   |  |        |       |      |  |  |                          |       |      |   |  |                          |        |       |   |  |                          |        |       |   |  |                          |        |       |   |  |                    |       |       |   |  |                                |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                       |       |      |  |  |                  |        |       |   |  |                    |        |       |   |  |                           |        |       |   |  |                      |       |       |   |  |                      |       |       |   |  |                |        |       |   |  |                            |        |       |   |  |                            |        |       |   |  |                |        |       |   |  |                        |        |       |   |  |          |        |       |   |  |                        |       |       |   |  |                      |       |       |   |  |                    |       |       |   |  |
| C3-Fluoranthenes/Pyrenes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | NotFnd | <1.45            | U |       |        |                                                                          |  |           |  |              |       |       |   |  |                      |      |      |   |  |                      |      |      |   |  |                      |       |       |   |  |                      |        |       |   |  |            |      |       |   |  |              |       |      |  |   |                      |       |       |   |  |                                       |       |       |   |  |        |       |      |  |  |                          |       |      |   |  |                          |        |       |   |  |                          |        |       |   |  |                          |        |       |   |  |                    |       |       |   |  |                                |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                       |       |      |  |  |                  |        |       |   |  |                    |        |       |   |  |                           |        |       |   |  |                      |       |       |   |  |                      |       |       |   |  |                |        |       |   |  |                            |        |       |   |  |                            |        |       |   |  |                |        |       |   |  |                        |        |       |   |  |          |        |       |   |  |                        |       |       |   |  |                      |       |       |   |  |                    |       |       |   |  |
| C4-Fluoranthenes/Pyrenes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | NotFnd | <1.45            | U |       |        |                                                                          |  |           |  |              |       |       |   |  |                      |      |      |   |  |                      |      |      |   |  |                      |       |       |   |  |                      |        |       |   |  |            |      |       |   |  |              |       |      |  |   |                      |       |       |   |  |                                       |       |       |   |  |        |       |      |  |  |                          |       |      |   |  |                          |        |       |   |  |                          |        |       |   |  |                          |        |       |   |  |                    |       |       |   |  |                                |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                       |       |      |  |  |                  |        |       |   |  |                    |        |       |   |  |                           |        |       |   |  |                      |       |       |   |  |                      |       |       |   |  |                |        |       |   |  |                            |        |       |   |  |                            |        |       |   |  |                |        |       |   |  |                        |        |       |   |  |          |        |       |   |  |                        |       |       |   |  |                      |       |       |   |  |                    |       |       |   |  |
| Benzo(a)anthracene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 15.80  | <1.45            | U |       |        |                                                                          |  |           |  |              |       |       |   |  |                      |      |      |   |  |                      |      |      |   |  |                      |       |       |   |  |                      |        |       |   |  |            |      |       |   |  |              |       |      |  |   |                      |       |       |   |  |                                       |       |       |   |  |        |       |      |  |  |                          |       |      |   |  |                          |        |       |   |  |                          |        |       |   |  |                          |        |       |   |  |                    |       |       |   |  |                                |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                       |       |      |  |  |                  |        |       |   |  |                    |        |       |   |  |                           |        |       |   |  |                      |       |       |   |  |                      |       |       |   |  |                |        |       |   |  |                            |        |       |   |  |                            |        |       |   |  |                |        |       |   |  |                        |        |       |   |  |          |        |       |   |  |                        |       |       |   |  |                      |       |       |   |  |                    |       |       |   |  |
| 7,12-Dimethylbenz(a)anthracene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | NotFnd | <1.45            | U |       |        |                                                                          |  |           |  |              |       |       |   |  |                      |      |      |   |  |                      |      |      |   |  |                      |       |       |   |  |                      |        |       |   |  |            |      |       |   |  |              |       |      |  |   |                      |       |       |   |  |                                       |       |       |   |  |        |       |      |  |  |                          |       |      |   |  |                          |        |       |   |  |                          |        |       |   |  |                          |        |       |   |  |                    |       |       |   |  |                                |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                       |       |      |  |  |                  |        |       |   |  |                    |        |       |   |  |                           |        |       |   |  |                      |       |       |   |  |                      |       |       |   |  |                |        |       |   |  |                            |        |       |   |  |                            |        |       |   |  |                |        |       |   |  |                        |        |       |   |  |          |        |       |   |  |                        |       |       |   |  |                      |       |       |   |  |                    |       |       |   |  |
| C1-Benz(a)anthracenes/Chrysenes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | NotFnd | <1.45            | U |       |        |                                                                          |  |           |  |              |       |       |   |  |                      |      |      |   |  |                      |      |      |   |  |                      |       |       |   |  |                      |        |       |   |  |            |      |       |   |  |              |       |      |  |   |                      |       |       |   |  |                                       |       |       |   |  |        |       |      |  |  |                          |       |      |   |  |                          |        |       |   |  |                          |        |       |   |  |                          |        |       |   |  |                    |       |       |   |  |                                |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                       |       |      |  |  |                  |        |       |   |  |                    |        |       |   |  |                           |        |       |   |  |                      |       |       |   |  |                      |       |       |   |  |                |        |       |   |  |                            |        |       |   |  |                            |        |       |   |  |                |        |       |   |  |                        |        |       |   |  |          |        |       |   |  |                        |       |       |   |  |                      |       |       |   |  |                    |       |       |   |  |
| C2-Benz(a)anthracenes/Chrysenes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | NotFnd | <1.45            | U |       |        |                                                                          |  |           |  |              |       |       |   |  |                      |      |      |   |  |                      |      |      |   |  |                      |       |       |   |  |                      |        |       |   |  |            |      |       |   |  |              |       |      |  |   |                      |       |       |   |  |                                       |       |       |   |  |        |       |      |  |  |                          |       |      |   |  |                          |        |       |   |  |                          |        |       |   |  |                          |        |       |   |  |                    |       |       |   |  |                                |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                       |       |      |  |  |                  |        |       |   |  |                    |        |       |   |  |                           |        |       |   |  |                      |       |       |   |  |                      |       |       |   |  |                |        |       |   |  |                            |        |       |   |  |                            |        |       |   |  |                |        |       |   |  |                        |        |       |   |  |          |        |       |   |  |                        |       |       |   |  |                      |       |       |   |  |                    |       |       |   |  |
| C3-Benz(a)anthracenes/Chrysenes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | NotFnd | <1.45            | U |       |        |                                                                          |  |           |  |              |       |       |   |  |                      |      |      |   |  |                      |      |      |   |  |                      |       |       |   |  |                      |        |       |   |  |            |      |       |   |  |              |       |      |  |   |                      |       |       |   |  |                                       |       |       |   |  |        |       |      |  |  |                          |       |      |   |  |                          |        |       |   |  |                          |        |       |   |  |                          |        |       |   |  |                    |       |       |   |  |                                |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                       |       |      |  |  |                  |        |       |   |  |                    |        |       |   |  |                           |        |       |   |  |                      |       |       |   |  |                      |       |       |   |  |                |        |       |   |  |                            |        |       |   |  |                            |        |       |   |  |                |        |       |   |  |                        |        |       |   |  |          |        |       |   |  |                        |       |       |   |  |                      |       |       |   |  |                    |       |       |   |  |
| C4-Benz(a)anthracenes/Chrysenes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | NotFnd | <1.45            | U |       |        |                                                                          |  |           |  |              |       |       |   |  |                      |      |      |   |  |                      |      |      |   |  |                      |       |       |   |  |                      |        |       |   |  |            |      |       |   |  |              |       |      |  |   |                      |       |       |   |  |                                       |       |       |   |  |        |       |      |  |  |                          |       |      |   |  |                          |        |       |   |  |                          |        |       |   |  |                          |        |       |   |  |                    |       |       |   |  |                                |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                       |       |      |  |  |                  |        |       |   |  |                    |        |       |   |  |                           |        |       |   |  |                      |       |       |   |  |                      |       |       |   |  |                |        |       |   |  |                            |        |       |   |  |                            |        |       |   |  |                |        |       |   |  |                        |        |       |   |  |          |        |       |   |  |                        |       |       |   |  |                      |       |       |   |  |                    |       |       |   |  |
| Chrysene/Triphenylene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 15.91  | 3.65             |   |       |        |                                                                          |  |           |  |              |       |       |   |  |                      |      |      |   |  |                      |      |      |   |  |                      |       |       |   |  |                      |        |       |   |  |            |      |       |   |  |              |       |      |  |   |                      |       |       |   |  |                                       |       |       |   |  |        |       |      |  |  |                          |       |      |   |  |                          |        |       |   |  |                          |        |       |   |  |                          |        |       |   |  |                    |       |       |   |  |                                |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                       |       |      |  |  |                  |        |       |   |  |                    |        |       |   |  |                           |        |       |   |  |                      |       |       |   |  |                      |       |       |   |  |                |        |       |   |  |                            |        |       |   |  |                            |        |       |   |  |                |        |       |   |  |                        |        |       |   |  |          |        |       |   |  |                        |       |       |   |  |                      |       |       |   |  |                    |       |       |   |  |
| 1-Methylchrysene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | NotFnd | <1.45            | U |       |        |                                                                          |  |           |  |              |       |       |   |  |                      |      |      |   |  |                      |      |      |   |  |                      |       |       |   |  |                      |        |       |   |  |            |      |       |   |  |              |       |      |  |   |                      |       |       |   |  |                                       |       |       |   |  |        |       |      |  |  |                          |       |      |   |  |                          |        |       |   |  |                          |        |       |   |  |                          |        |       |   |  |                    |       |       |   |  |                                |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                       |       |      |  |  |                  |        |       |   |  |                    |        |       |   |  |                           |        |       |   |  |                      |       |       |   |  |                      |       |       |   |  |                |        |       |   |  |                            |        |       |   |  |                            |        |       |   |  |                |        |       |   |  |                        |        |       |   |  |          |        |       |   |  |                        |       |       |   |  |                      |       |       |   |  |                    |       |       |   |  |
| 5/6-Methylchrysene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | NotFnd | <1.45            | U |       |        |                                                                          |  |           |  |              |       |       |   |  |                      |      |      |   |  |                      |      |      |   |  |                      |       |       |   |  |                      |        |       |   |  |            |      |       |   |  |              |       |      |  |   |                      |       |       |   |  |                                       |       |       |   |  |        |       |      |  |  |                          |       |      |   |  |                          |        |       |   |  |                          |        |       |   |  |                          |        |       |   |  |                    |       |       |   |  |                                |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                       |       |      |  |  |                  |        |       |   |  |                    |        |       |   |  |                           |        |       |   |  |                      |       |       |   |  |                      |       |       |   |  |                |        |       |   |  |                            |        |       |   |  |                            |        |       |   |  |                |        |       |   |  |                        |        |       |   |  |          |        |       |   |  |                        |       |       |   |  |                      |       |       |   |  |                    |       |       |   |  |
| 3,11/5,9-Dimethylchrysene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | NotFnd | <1.45            | U |       |        |                                                                          |  |           |  |              |       |       |   |  |                      |      |      |   |  |                      |      |      |   |  |                      |       |       |   |  |                      |        |       |   |  |            |      |       |   |  |              |       |      |  |   |                      |       |       |   |  |                                       |       |       |   |  |        |       |      |  |  |                          |       |      |   |  |                          |        |       |   |  |                          |        |       |   |  |                          |        |       |   |  |                    |       |       |   |  |                                |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                       |       |      |  |  |                  |        |       |   |  |                    |        |       |   |  |                           |        |       |   |  |                      |       |       |   |  |                      |       |       |   |  |                |        |       |   |  |                            |        |       |   |  |                            |        |       |   |  |                |        |       |   |  |                        |        |       |   |  |          |        |       |   |  |                        |       |       |   |  |                      |       |       |   |  |                    |       |       |   |  |
| Benzo(b)fluoranthene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 19.14  | <1.45            | U |       |        |                                                                          |  |           |  |              |       |       |   |  |                      |      |      |   |  |                      |      |      |   |  |                      |       |       |   |  |                      |        |       |   |  |            |      |       |   |  |              |       |      |  |   |                      |       |       |   |  |                                       |       |       |   |  |        |       |      |  |  |                          |       |      |   |  |                          |        |       |   |  |                          |        |       |   |  |                          |        |       |   |  |                    |       |       |   |  |                                |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                       |       |      |  |  |                  |        |       |   |  |                    |        |       |   |  |                           |        |       |   |  |                      |       |       |   |  |                      |       |       |   |  |                |        |       |   |  |                            |        |       |   |  |                            |        |       |   |  |                |        |       |   |  |                        |        |       |   |  |          |        |       |   |  |                        |       |       |   |  |                      |       |       |   |  |                    |       |       |   |  |
| Benzo(k)fluoranthene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 19.22  | <1.45            | U |       |        |                                                                          |  |           |  |              |       |       |   |  |                      |      |      |   |  |                      |      |      |   |  |                      |       |       |   |  |                      |        |       |   |  |            |      |       |   |  |              |       |      |  |   |                      |       |       |   |  |                                       |       |       |   |  |        |       |      |  |  |                          |       |      |   |  |                          |        |       |   |  |                          |        |       |   |  |                          |        |       |   |  |                    |       |       |   |  |                                |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                       |       |      |  |  |                  |        |       |   |  |                    |        |       |   |  |                           |        |       |   |  |                      |       |       |   |  |                      |       |       |   |  |                |        |       |   |  |                            |        |       |   |  |                            |        |       |   |  |                |        |       |   |  |                        |        |       |   |  |          |        |       |   |  |                        |       |       |   |  |                      |       |       |   |  |                    |       |       |   |  |
| Benzo(e)Pyrene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | NotFnd | <1.45            | U |       |        |                                                                          |  |           |  |              |       |       |   |  |                      |      |      |   |  |                      |      |      |   |  |                      |       |       |   |  |                      |        |       |   |  |            |      |       |   |  |              |       |      |  |   |                      |       |       |   |  |                                       |       |       |   |  |        |       |      |  |  |                          |       |      |   |  |                          |        |       |   |  |                          |        |       |   |  |                          |        |       |   |  |                    |       |       |   |  |                                |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                       |       |      |  |  |                  |        |       |   |  |                    |        |       |   |  |                           |        |       |   |  |                      |       |       |   |  |                      |       |       |   |  |                |        |       |   |  |                            |        |       |   |  |                            |        |       |   |  |                |        |       |   |  |                        |        |       |   |  |          |        |       |   |  |                        |       |       |   |  |                      |       |       |   |  |                    |       |       |   |  |
| C1-Benzofluoranthenes/BAPs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | NotFnd | <1.45            | U |       |        |                                                                          |  |           |  |              |       |       |   |  |                      |      |      |   |  |                      |      |      |   |  |                      |       |       |   |  |                      |        |       |   |  |            |      |       |   |  |              |       |      |  |   |                      |       |       |   |  |                                       |       |       |   |  |        |       |      |  |  |                          |       |      |   |  |                          |        |       |   |  |                          |        |       |   |  |                          |        |       |   |  |                    |       |       |   |  |                                |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                       |       |      |  |  |                  |        |       |   |  |                    |        |       |   |  |                           |        |       |   |  |                      |       |       |   |  |                      |       |       |   |  |                |        |       |   |  |                            |        |       |   |  |                            |        |       |   |  |                |        |       |   |  |                        |        |       |   |  |          |        |       |   |  |                        |       |       |   |  |                      |       |       |   |  |                    |       |       |   |  |
| C2-Benzofluoranthenes/BAPs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | NotFnd | <1.45            | U |       |        |                                                                          |  |           |  |              |       |       |   |  |                      |      |      |   |  |                      |      |      |   |  |                      |       |       |   |  |                      |        |       |   |  |            |      |       |   |  |              |       |      |  |   |                      |       |       |   |  |                                       |       |       |   |  |        |       |      |  |  |                          |       |      |   |  |                          |        |       |   |  |                          |        |       |   |  |                          |        |       |   |  |                    |       |       |   |  |                                |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                       |       |      |  |  |                  |        |       |   |  |                    |        |       |   |  |                           |        |       |   |  |                      |       |       |   |  |                      |       |       |   |  |                |        |       |   |  |                            |        |       |   |  |                            |        |       |   |  |                |        |       |   |  |                        |        |       |   |  |          |        |       |   |  |                        |       |       |   |  |                      |       |       |   |  |                    |       |       |   |  |
| Benzo(a)pyrene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | NotFnd | <1.45            | U |       |        |                                                                          |  |           |  |              |       |       |   |  |                      |      |      |   |  |                      |      |      |   |  |                      |       |       |   |  |                      |        |       |   |  |            |      |       |   |  |              |       |      |  |   |                      |       |       |   |  |                                       |       |       |   |  |        |       |      |  |  |                          |       |      |   |  |                          |        |       |   |  |                          |        |       |   |  |                          |        |       |   |  |                    |       |       |   |  |                                |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                       |       |      |  |  |                  |        |       |   |  |                    |        |       |   |  |                           |        |       |   |  |                      |       |       |   |  |                      |       |       |   |  |                |        |       |   |  |                            |        |       |   |  |                            |        |       |   |  |                |        |       |   |  |                        |        |       |   |  |          |        |       |   |  |                        |       |       |   |  |                      |       |       |   |  |                    |       |       |   |  |
| 7-Methylbenzo(a)pyrene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | NotFnd | <1.45            | U |       |        |                                                                          |  |           |  |              |       |       |   |  |                      |      |      |   |  |                      |      |      |   |  |                      |       |       |   |  |                      |        |       |   |  |            |      |       |   |  |              |       |      |  |   |                      |       |       |   |  |                                       |       |       |   |  |        |       |      |  |  |                          |       |      |   |  |                          |        |       |   |  |                          |        |       |   |  |                          |        |       |   |  |                    |       |       |   |  |                                |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                       |       |      |  |  |                  |        |       |   |  |                    |        |       |   |  |                           |        |       |   |  |                      |       |       |   |  |                      |       |       |   |  |                |        |       |   |  |                            |        |       |   |  |                            |        |       |   |  |                |        |       |   |  |                        |        |       |   |  |          |        |       |   |  |                        |       |       |   |  |                      |       |       |   |  |                    |       |       |   |  |
| Perylene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | NotFnd | <1.45            | U |       |        |                                                                          |  |           |  |              |       |       |   |  |                      |      |      |   |  |                      |      |      |   |  |                      |       |       |   |  |                      |        |       |   |  |            |      |       |   |  |              |       |      |  |   |                      |       |       |   |  |                                       |       |       |   |  |        |       |      |  |  |                          |       |      |   |  |                          |        |       |   |  |                          |        |       |   |  |                          |        |       |   |  |                    |       |       |   |  |                                |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                       |       |      |  |  |                  |        |       |   |  |                    |        |       |   |  |                           |        |       |   |  |                      |       |       |   |  |                      |       |       |   |  |                |        |       |   |  |                            |        |       |   |  |                            |        |       |   |  |                |        |       |   |  |                        |        |       |   |  |          |        |       |   |  |                        |       |       |   |  |                      |       |       |   |  |                    |       |       |   |  |
| Indeno(1,2,3-cd)pyrene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 23.46  | <1.45            | U |       |        |                                                                          |  |           |  |              |       |       |   |  |                      |      |      |   |  |                      |      |      |   |  |                      |       |       |   |  |                      |        |       |   |  |            |      |       |   |  |              |       |      |  |   |                      |       |       |   |  |                                       |       |       |   |  |        |       |      |  |  |                          |       |      |   |  |                          |        |       |   |  |                          |        |       |   |  |                          |        |       |   |  |                    |       |       |   |  |                                |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                       |       |      |  |  |                  |        |       |   |  |                    |        |       |   |  |                           |        |       |   |  |                      |       |       |   |  |                      |       |       |   |  |                |        |       |   |  |                            |        |       |   |  |                            |        |       |   |  |                |        |       |   |  |                        |        |       |   |  |          |        |       |   |  |                        |       |       |   |  |                      |       |       |   |  |                    |       |       |   |  |
| Dibenz(ah)anthracene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 23.66  | <1.45            | U |       |        |                                                                          |  |           |  |              |       |       |   |  |                      |      |      |   |  |                      |      |      |   |  |                      |       |       |   |  |                      |        |       |   |  |            |      |       |   |  |              |       |      |  |   |                      |       |       |   |  |                                       |       |       |   |  |        |       |      |  |  |                          |       |      |   |  |                          |        |       |   |  |                          |        |       |   |  |                          |        |       |   |  |                    |       |       |   |  |                                |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                       |       |      |  |  |                  |        |       |   |  |                    |        |       |   |  |                           |        |       |   |  |                      |       |       |   |  |                      |       |       |   |  |                |        |       |   |  |                            |        |       |   |  |                            |        |       |   |  |                |        |       |   |  |                        |        |       |   |  |          |        |       |   |  |                        |       |       |   |  |                      |       |       |   |  |                    |       |       |   |  |
| Benzo(ghi)perylene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 24.37  | <1.45            | U |       |        |                                                                          |  |           |  |              |       |       |   |  |                      |      |      |   |  |                      |      |      |   |  |                      |       |       |   |  |                      |        |       |   |  |            |      |       |   |  |              |       |      |  |   |                      |       |       |   |  |                                       |       |       |   |  |        |       |      |  |  |                          |       |      |   |  |                          |        |       |   |  |                          |        |       |   |  |                          |        |       |   |  |                    |       |       |   |  |                                |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                       |       |      |  |  |                  |        |       |   |  |                    |        |       |   |  |                           |        |       |   |  |                      |       |       |   |  |                      |       |       |   |  |                |        |       |   |  |                            |        |       |   |  |                            |        |       |   |  |                |        |       |   |  |                        |        |       |   |  |          |        |       |   |  |                        |       |       |   |  |                      |       |       |   |  |                    |       |       |   |  |
| Extraction Standards                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |        |                  |   | % Rec | Limits |                                                                          |  |           |  |              |       |       |   |  |                      |      |      |   |  |                      |      |      |   |  |                      |       |       |   |  |                      |        |       |   |  |            |      |       |   |  |              |       |      |  |   |                      |       |       |   |  |                                       |       |       |   |  |        |       |      |  |  |                          |       |      |   |  |                          |        |       |   |  |                          |        |       |   |  |                          |        |       |   |  |                    |       |       |   |  |                                |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                       |       |      |  |  |                  |        |       |   |  |                    |        |       |   |  |                           |        |       |   |  |                      |       |       |   |  |                      |       |       |   |  |                |        |       |   |  |                            |        |       |   |  |                            |        |       |   |  |                |        |       |   |  |                        |        |       |   |  |          |        |       |   |  |                        |       |       |   |  |                      |       |       |   |  |                    |       |       |   |  |
| d8-Naphthalene(ES)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 200    | 2.91             |   | 47.9  | 5-150  |                                                                          |  |           |  |              |       |       |   |  |                      |      |      |   |  |                      |      |      |   |  |                      |       |       |   |  |                      |        |       |   |  |            |      |       |   |  |              |       |      |  |   |                      |       |       |   |  |                                       |       |       |   |  |        |       |      |  |  |                          |       |      |   |  |                          |        |       |   |  |                          |        |       |   |  |                          |        |       |   |  |                    |       |       |   |  |                                |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                       |       |      |  |  |                  |        |       |   |  |                    |        |       |   |  |                           |        |       |   |  |                      |       |       |   |  |                      |       |       |   |  |                |        |       |   |  |                            |        |       |   |  |                            |        |       |   |  |                |        |       |   |  |                        |        |       |   |  |          |        |       |   |  |                        |       |       |   |  |                      |       |       |   |  |                    |       |       |   |  |
| d10-2-Methylnaphthalene(ES)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 200    | 3.47             |   | 62.9  | 5-150  |                                                                          |  |           |  |              |       |       |   |  |                      |      |      |   |  |                      |      |      |   |  |                      |       |       |   |  |                      |        |       |   |  |            |      |       |   |  |              |       |      |  |   |                      |       |       |   |  |                                       |       |       |   |  |        |       |      |  |  |                          |       |      |   |  |                          |        |       |   |  |                          |        |       |   |  |                          |        |       |   |  |                    |       |       |   |  |                                |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                       |       |      |  |  |                  |        |       |   |  |                    |        |       |   |  |                           |        |       |   |  |                      |       |       |   |  |                      |       |       |   |  |                |        |       |   |  |                            |        |       |   |  |                            |        |       |   |  |                |        |       |   |  |                        |        |       |   |  |          |        |       |   |  |                        |       |       |   |  |                      |       |       |   |  |                    |       |       |   |  |
| d8-Acenaphthylene(ES)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 200    | 4.57             |   | 71.1  | 5-150  |                                                                          |  |           |  |              |       |       |   |  |                      |      |      |   |  |                      |      |      |   |  |                      |       |       |   |  |                      |        |       |   |  |            |      |       |   |  |              |       |      |  |   |                      |       |       |   |  |                                       |       |       |   |  |        |       |      |  |  |                          |       |      |   |  |                          |        |       |   |  |                          |        |       |   |  |                          |        |       |   |  |                    |       |       |   |  |                                |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                       |       |      |  |  |                  |        |       |   |  |                    |        |       |   |  |                           |        |       |   |  |                      |       |       |   |  |                      |       |       |   |  |                |        |       |   |  |                            |        |       |   |  |                            |        |       |   |  |                |        |       |   |  |                        |        |       |   |  |          |        |       |   |  |                        |       |       |   |  |                      |       |       |   |  |                    |       |       |   |  |
| d10-Phenanthrene(ES)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 200    | 7.87             |   | 55.8  | 5-150  |                                                                          |  |           |  |              |       |       |   |  |                      |      |      |   |  |                      |      |      |   |  |                      |       |       |   |  |                      |        |       |   |  |            |      |       |   |  |              |       |      |  |   |                      |       |       |   |  |                                       |       |       |   |  |        |       |      |  |  |                          |       |      |   |  |                          |        |       |   |  |                          |        |       |   |  |                          |        |       |   |  |                    |       |       |   |  |                                |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                       |       |      |  |  |                  |        |       |   |  |                    |        |       |   |  |                           |        |       |   |  |                      |       |       |   |  |                      |       |       |   |  |                |        |       |   |  |                            |        |       |   |  |                            |        |       |   |  |                |        |       |   |  |                        |        |       |   |  |          |        |       |   |  |                        |       |       |   |  |                      |       |       |   |  |                    |       |       |   |  |
| d10-Anthracene(ES)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 200    | 7.99             |   | 50.9  | 5-150  |                                                                          |  |           |  |              |       |       |   |  |                      |      |      |   |  |                      |      |      |   |  |                      |       |       |   |  |                      |        |       |   |  |            |      |       |   |  |              |       |      |  |   |                      |       |       |   |  |                                       |       |       |   |  |        |       |      |  |  |                          |       |      |   |  |                          |        |       |   |  |                          |        |       |   |  |                          |        |       |   |  |                    |       |       |   |  |                                |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                       |       |      |  |  |                  |        |       |   |  |                    |        |       |   |  |                           |        |       |   |  |                      |       |       |   |  |                      |       |       |   |  |                |        |       |   |  |                            |        |       |   |  |                            |        |       |   |  |                |        |       |   |  |                        |        |       |   |  |          |        |       |   |  |                        |       |       |   |  |                      |       |       |   |  |                    |       |       |   |  |
| d10-Fluoranthene(ES)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 200    | 11.23            |   | 55.3  | 5-150  |                                                                          |  |           |  |              |       |       |   |  |                      |      |      |   |  |                      |      |      |   |  |                      |       |       |   |  |                      |        |       |   |  |            |      |       |   |  |              |       |      |  |   |                      |       |       |   |  |                                       |       |       |   |  |        |       |      |  |  |                          |       |      |   |  |                          |        |       |   |  |                          |        |       |   |  |                          |        |       |   |  |                    |       |       |   |  |                                |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                       |       |      |  |  |                  |        |       |   |  |                    |        |       |   |  |                           |        |       |   |  |                      |       |       |   |  |                      |       |       |   |  |                |        |       |   |  |                            |        |       |   |  |                            |        |       |   |  |                |        |       |   |  |                        |        |       |   |  |          |        |       |   |  |                        |       |       |   |  |                      |       |       |   |  |                    |       |       |   |  |
| d12-Benzo(a)anthracene(ES)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 200    | 15.74            |   | 58.9  | 5-150  |                                                                          |  |           |  |              |       |       |   |  |                      |      |      |   |  |                      |      |      |   |  |                      |       |       |   |  |                      |        |       |   |  |            |      |       |   |  |              |       |      |  |   |                      |       |       |   |  |                                       |       |       |   |  |        |       |      |  |  |                          |       |      |   |  |                          |        |       |   |  |                          |        |       |   |  |                          |        |       |   |  |                    |       |       |   |  |                                |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                       |       |      |  |  |                  |        |       |   |  |                    |        |       |   |  |                           |        |       |   |  |                      |       |       |   |  |                      |       |       |   |  |                |        |       |   |  |                            |        |       |   |  |                            |        |       |   |  |                |        |       |   |  |                        |        |       |   |  |          |        |       |   |  |                        |       |       |   |  |                      |       |       |   |  |                    |       |       |   |  |
| d12-Chrysene(ES)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 200    | 15.85            |   | 65.3  | 5-150  |                                                                          |  |           |  |              |       |       |   |  |                      |      |      |   |  |                      |      |      |   |  |                      |       |       |   |  |                      |        |       |   |  |            |      |       |   |  |              |       |      |  |   |                      |       |       |   |  |                                       |       |       |   |  |        |       |      |  |  |                          |       |      |   |  |                          |        |       |   |  |                          |        |       |   |  |                          |        |       |   |  |                    |       |       |   |  |                                |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                       |       |      |  |  |                  |        |       |   |  |                    |        |       |   |  |                           |        |       |   |  |                      |       |       |   |  |                      |       |       |   |  |                |        |       |   |  |                            |        |       |   |  |                            |        |       |   |  |                |        |       |   |  |                        |        |       |   |  |          |        |       |   |  |                        |       |       |   |  |                      |       |       |   |  |                    |       |       |   |  |
| d12-Benzo(b)fluoranthene(ES)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 200    | 19.07            |   | 57.5  | 5-150  |                                                                          |  |           |  |              |       |       |   |  |                      |      |      |   |  |                      |      |      |   |  |                      |       |       |   |  |                      |        |       |   |  |            |      |       |   |  |              |       |      |  |   |                      |       |       |   |  |                                       |       |       |   |  |        |       |      |  |  |                          |       |      |   |  |                          |        |       |   |  |                          |        |       |   |  |                          |        |       |   |  |                    |       |       |   |  |                                |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                       |       |      |  |  |                  |        |       |   |  |                    |        |       |   |  |                           |        |       |   |  |                      |       |       |   |  |                      |       |       |   |  |                |        |       |   |  |                            |        |       |   |  |                            |        |       |   |  |                |        |       |   |  |                        |        |       |   |  |          |        |       |   |  |                        |       |       |   |  |                      |       |       |   |  |                    |       |       |   |  |
| d12-Benzo(k)fluoranthene(ES)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 200    | 19.15            |   | 64.1  | 5-150  |                                                                          |  |           |  |              |       |       |   |  |                      |      |      |   |  |                      |      |      |   |  |                      |       |       |   |  |                      |        |       |   |  |            |      |       |   |  |              |       |      |  |   |                      |       |       |   |  |                                       |       |       |   |  |        |       |      |  |  |                          |       |      |   |  |                          |        |       |   |  |                          |        |       |   |  |                          |        |       |   |  |                    |       |       |   |  |                                |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                       |       |      |  |  |                  |        |       |   |  |                    |        |       |   |  |                           |        |       |   |  |                      |       |       |   |  |                      |       |       |   |  |                |        |       |   |  |                            |        |       |   |  |                            |        |       |   |  |                |        |       |   |  |                        |        |       |   |  |          |        |       |   |  |                        |       |       |   |  |                      |       |       |   |  |                    |       |       |   |  |
| d12-Benzo(a)pyrene(ES)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 200    | 19.95            |   | 62.7  | 5-150  |                                                                          |  |           |  |              |       |       |   |  |                      |      |      |   |  |                      |      |      |   |  |                      |       |       |   |  |                      |        |       |   |  |            |      |       |   |  |              |       |      |  |   |                      |       |       |   |  |                                       |       |       |   |  |        |       |      |  |  |                          |       |      |   |  |                          |        |       |   |  |                          |        |       |   |  |                          |        |       |   |  |                    |       |       |   |  |                                |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                       |       |      |  |  |                  |        |       |   |  |                    |        |       |   |  |                           |        |       |   |  |                      |       |       |   |  |                      |       |       |   |  |                |        |       |   |  |                            |        |       |   |  |                            |        |       |   |  |                |        |       |   |  |                        |        |       |   |  |          |        |       |   |  |                        |       |       |   |  |                      |       |       |   |  |                    |       |       |   |  |
| d12-Perylene(ES)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 200    | 20.19            |   | 56.1  | 5-150  |                                                                          |  |           |  |              |       |       |   |  |                      |      |      |   |  |                      |      |      |   |  |                      |       |       |   |  |                      |        |       |   |  |            |      |       |   |  |              |       |      |  |   |                      |       |       |   |  |                                       |       |       |   |  |        |       |      |  |  |                          |       |      |   |  |                          |        |       |   |  |                          |        |       |   |  |                          |        |       |   |  |                    |       |       |   |  |                                |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                       |       |      |  |  |                  |        |       |   |  |                    |        |       |   |  |                           |        |       |   |  |                      |       |       |   |  |                      |       |       |   |  |                |        |       |   |  |                            |        |       |   |  |                            |        |       |   |  |                |        |       |   |  |                        |        |       |   |  |          |        |       |   |  |                        |       |       |   |  |                      |       |       |   |  |                    |       |       |   |  |
| d12-Indeno(1,2,3-cd)pyrene(ES)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 200    | 23.38            |   | 54.0  | 5-150  |                                                                          |  |           |  |              |       |       |   |  |                      |      |      |   |  |                      |      |      |   |  |                      |       |       |   |  |                      |        |       |   |  |            |      |       |   |  |              |       |      |  |   |                      |       |       |   |  |                                       |       |       |   |  |        |       |      |  |  |                          |       |      |   |  |                          |        |       |   |  |                          |        |       |   |  |                          |        |       |   |  |                    |       |       |   |  |                                |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                       |       |      |  |  |                  |        |       |   |  |                    |        |       |   |  |                           |        |       |   |  |                      |       |       |   |  |                      |       |       |   |  |                |        |       |   |  |                            |        |       |   |  |                            |        |       |   |  |                |        |       |   |  |                        |        |       |   |  |          |        |       |   |  |                        |       |       |   |  |                      |       |       |   |  |                    |       |       |   |  |
| d14-Dibenz(ah)anthracene(ES)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 200    | 23.55            |   | 40.9  | 5-150  |                                                                          |  |           |  |              |       |       |   |  |                      |      |      |   |  |                      |      |      |   |  |                      |       |       |   |  |                      |        |       |   |  |            |      |       |   |  |              |       |      |  |   |                      |       |       |   |  |                                       |       |       |   |  |        |       |      |  |  |                          |       |      |   |  |                          |        |       |   |  |                          |        |       |   |  |                          |        |       |   |  |                    |       |       |   |  |                                |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                       |       |      |  |  |                  |        |       |   |  |                    |        |       |   |  |                           |        |       |   |  |                      |       |       |   |  |                      |       |       |   |  |                |        |       |   |  |                            |        |       |   |  |                            |        |       |   |  |                |        |       |   |  |                        |        |       |   |  |          |        |       |   |  |                        |       |       |   |  |                      |       |       |   |  |                    |       |       |   |  |
| d12-Benzo(ghi)perylene(ES)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 200    | 24.27            |   | 38.3  | 5-150  |                                                                          |  |           |  |              |       |       |   |  |                      |      |      |   |  |                      |      |      |   |  |                      |       |       |   |  |                      |        |       |   |  |            |      |       |   |  |              |       |      |  |   |                      |       |       |   |  |                                       |       |       |   |  |        |       |      |  |  |                          |       |      |   |  |                          |        |       |   |  |                          |        |       |   |  |                          |        |       |   |  |                    |       |       |   |  |                                |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                                 |        |       |   |  |                       |       |      |  |  |                  |        |       |   |  |                    |        |       |   |  |                           |        |       |   |  |                      |       |       |   |  |                      |       |       |   |  |                |        |       |   |  |                            |        |       |   |  |                            |        |       |   |  |                |        |       |   |  |                        |        |       |   |  |          |        |       |   |  |                        |       |       |   |  |                      |       |       |   |  |                    |       |       |   |  |

|   |                                                                                                        |
|---|--------------------------------------------------------------------------------------------------------|
| M | Indicates that a peak has been manually integrated.                                                    |
| U | Indicates that this compound was not detected above the MDL.                                           |
| B | Indicates that this compound was detected in the method blank at greater than 10% of the sample value. |

# ALS Life Sciences

## Sample Analysis Report

|                                                                          |                          |                 |           |
|--------------------------------------------------------------------------|--------------------------|-----------------|-----------|
| <b>Sample Name</b>                                                       | <b>PLOT 109 - 5 JARS</b> | Sampling Date   | 25-May-24 |
| ALS Sample ID                                                            | L2756078-5               | Extraction Date | 26-Jul-24 |
| Analysis Method                                                          | PAH by GCMS              |                 |           |
| Analysis Type                                                            | sample                   |                 |           |
| Sample Matrix                                                            | Tissue                   |                 |           |
| Sample Size                                                              | 2.90 g                   |                 |           |
| Percent Moisture                                                         | 71.9%                    |                 |           |
| Split Ratio                                                              | 2                        | Workgroup       | WG3789954 |
| <div>Approved:<br/>Andrew Reid<br/>--e-signature--<br/>08-Aug-2024</div> |                          |                 |           |

|                        |                  |
|------------------------|------------------|
| <b>Run Information</b> | <b>Run 1</b>     |
| Filename               | 24080623.D       |
| Run Date               | 8/6/2024 21:43   |
| Final Volume           | 1 mL             |
| Dilution Factor        | 1                |
| Analysis Units         | ng/g             |
| Instrument             | MSD-5            |
| Column                 | HP5MS US2498036H |

| Target Analytes                | Ret. Time | Concentration ng/g | Flags |
|--------------------------------|-----------|--------------------|-------|
| Naphthalene                    | 2.92      | 21.6               | B     |
| Quinoline                      | 3.20      | 11.1               |       |
| 2-Methylnaphthalene            | 3.50      | 17.5               | B     |
| 1-Methylnaphthalene            | 3.61      | 9.03               |       |
| 1,2-Dimethylnaphthalene        | 4.02      | 3.06 M             |       |
| 2,6-Dimethylnaphthalene        | 4.22      | 3.42               | B     |
| 2,3,5-Trimethylnaphthalene     | 5.56      | 2.65               |       |
| 2,3,6-Trimethylnaphthalene     | 5.40      | <1.38              | U     |
| 1,4,6,7-Tetramethylnaphthalene | 7.74      | 2.22 M             |       |
| C1-Naphthalenes                | 3.50      | 22.6 M             |       |
| C2-Naphthalenes                | 4.33      | 15.0 M             | B     |
| C3-Naphthalenes                | 5.25      | 12.1 M             | B     |
| C4-Naphthalenes                | 6.50      | 10.3 M             | B     |
| Biphenyl                       | 4.02      | 1.83               |       |
| Acenaphthylene                 | 4.59      | <1.38              | U     |
| Acenaphthene                   | 4.88      | <1.38              | U     |
| C1-Biphenyl                    | 4.82      | 5.94 M             | B     |
| C2-Biphenyl                    | 5.78      | <1.38              | U     |
| C1-Acenaphthenes               | 5.56      | 1.51               |       |
| Fluorene                       | 5.78      | 3.68               |       |
| 2-Methylfluorene               | 7.06      | 3.99 M             |       |
| 1,7-Dimethylfluorene           | 8.12      | <1.38              | U     |
| Phenanthrene                   | 7.92      | 14.8               | B     |
| 3-Methylphenanthrene           | 9.26      | 2.50 M             |       |
| 2-Methylphenanthrene           | 9.34      | 3.98 M             |       |
| 9/4-Methylphenanthrene         | 9.51      | <1.38              | U     |
| 1-Methylphenanthrene           | 9.57      | 1.39 M             |       |
| 2-Methylanthracene             | 9.63      | <1.38              | U     |
| 1,7-Dimethylphenanthrene       | 10.61     | <1.38              | U     |
| 1,8-Dimethylphenanthrene       | 10.72     | <1.38              | U     |
| 2,6-Dimethylphenanthrene       | 10.94     | 3.11 M             |       |
| 3,6-Dimethylphenanthrene       | 11.10     | 2.73 M             |       |
| Retene                         | 13.15     | 3.91               |       |
| 1,2,6-Trimethylphenanthrene    | 13.35     | <1.38              | U     |
| Dibenzothiophene               | 7.62      | <1.38              | U     |
| 2/3-Methylbenzothiophene       | 9.01      | <1.38              | U     |
| 4,6-Dimethyldibenzothiophene   | 9.80      | 46.5               |       |
| C1-Phenanthrenes/Anthracenes   | 9.34      | 8.52 M             | B     |
| C2-Phenanthrenes/Anthracenes   | 10.17     | 2.63 M             |       |
| C3-Phenanthrenes/Anthracenes   | 12.40     | <1.38              | U     |
| C4-Phenanthrenes/Anthracenes   | 13.15     | 1.73 M             |       |
| C1-Fluorenes                   | 7.06      | 2.64 M             |       |
| C2-Fluorenes                   | 7.74      | <1.38              | U     |

# ALS Life Sciences

## Sample Analysis Report

|                                                                                                            |                          |                 |           |
|------------------------------------------------------------------------------------------------------------|--------------------------|-----------------|-----------|
| <b>Sample Name</b>                                                                                         | <b>PLOT 109 - 5 JARS</b> | Sampling Date   | 25-May-24 |
| ALS Sample ID                                                                                              | L2756078-5               | Extraction Date | 26-Jul-24 |
| Analysis Method                                                                                            | PAH by GCMS              |                 |           |
| Analysis Type                                                                                              | sample                   |                 |           |
| Sample Matrix                                                                                              | Tissue                   |                 |           |
| Sample Size                                                                                                | 2.90 g                   |                 |           |
| Percent Moisture                                                                                           | 71.9%                    |                 |           |
| Split Ratio                                                                                                | 2                        | Workgroup       | WG3789954 |
| <div> <div>Approved:</div> <div>Andrew Reid</div> <div>--e-signature--</div> <div>08-Aug-2024</div> </div> |                          |                 |           |

|                                       |        |       |   |
|---------------------------------------|--------|-------|---|
| C3-Fluorenes                          | 10.77  | <1.38 | U |
| C1-Dibenzothiophenes                  | 8.78   | 2.55  | M |
| C2-Dibenzothiophenes                  | 9.80   | 57.0  | M |
| C3-Dibenzothiophenes                  | 11.38  | <1.38 | U |
| C4-Dibenzothiophenes                  | 13.14  | <1.38 | U |
| Anthracene                            | 8.04   | <1.38 | U |
| Fluoranthene                          | 11.28  | 3.76  | B |
| 1-Methylfluoranthene                  | 13.07  | <1.38 | U |
| 3-Methylfluoranthene/Benzo(a)fluorene | 13.29  | <1.38 | U |
| Pyrene                                | 11.91  | 2.35  |   |
| C1-Fluoranthenes/Pyrenes              | 13.07  | <1.38 | U |
| C2-Fluoranthenes/Pyrenes              | NotFnd | <1.38 | U |
| C3-Fluoranthenes/Pyrenes              | NotFnd | <1.38 | U |
| C4-Fluoranthenes/Pyrenes              | NotFnd | <1.38 | U |
| Benzo(a)anthracene                    | 15.80  | <1.38 | U |
| 7,12-Dimethylbenz(a)anthracene        | NotFnd | <1.38 | U |
| C1-Benz(a)anthracenes/Chrysenes       | NotFnd | <1.38 | U |
| C2-Benz(a)anthracenes/Chrysenes       | NotFnd | <1.38 | U |
| C3-Benz(a)anthracenes/Chrysenes       | NotFnd | <1.38 | U |
| C4-Benz(a)anthracenes/Chrysenes       | NotFnd | <1.38 | U |
| Chrysene/Triphenylene                 | 15.91  | 2.39  |   |
| 1-Methylchrysene                      | NotFnd | <1.38 | U |
| 5/6-Methylchrysene                    | NotFnd | <1.38 | U |
| 3,11/5,9-Dimethylchrysene             | NotFnd | <1.38 | U |
| Benzo(b)fluoranthene                  | 19.14  | 2.18  |   |
| Benzo(k)fluoranthene                  | 19.22  | 4.56  |   |
| Benzo(e)Pyrene                        | NotFnd | <1.38 | U |
| C1-Benzofluoranthenes/BAPs            | NotFnd | <1.38 | U |
| C2-Benzofluoranthenes/BAPs            | NotFnd | <1.38 | U |
| Benzo(a)pyrene                        | NotFnd | <1.38 | U |
| 7-Methylbenzo(a)pyrene                | NotFnd | <1.38 | U |
| Perylene                              | NotFnd | <1.38 | U |
| Indeno(1,2,3-cd)pyrene                | 23.46  | <1.38 | U |
| Dibenz(ah)anthracene                  | 23.65  | <1.38 | U |
| Benzo(ghi)perylene                    | 24.37  | <1.38 | U |

| Extraction Standards           |     |       | % Rec | Limits |
|--------------------------------|-----|-------|-------|--------|
| d8-Naphthalene(ES)             | 200 | 2.91  | 50.0  | 5-150  |
| d10-2-Methylnaphthalene(ES)    | 200 | 3.47  | 63.8  | 5-150  |
| d8-Acenaphthylene(ES)          | 200 | 4.58  | 74.2  | 5-150  |
| d10-Phenanthrene(ES)           | 200 | 7.87  | 67.7  | 5-150  |
| d10-Anthracene(ES)             | 200 | 7.99  | 62.0  | 5-150  |
| d10-Fluoranthene(ES)           | 200 | 11.22 | 76.7  | 5-150  |
| d12-Benzo(a)anthracene(ES)     | 200 | 15.74 | 65.8  | 5-150  |
| d12-Chrysene(ES)               | 200 | 15.85 | 69.0  | 5-150  |
| d12-Benzo(b)fluoranthene(ES)   | 200 | 19.07 | 57.4  | 5-150  |
| d12-Benzo(k)fluoranthene(ES)   | 200 | 19.15 | 70.3  | 5-150  |
| d12-Benzo(a)pyrene(ES)         | 200 | 19.95 | 67.5  | 5-150  |
| d12-Perylene(ES)               | 200 | 20.18 | 67.2  | 5-150  |
| d12-Indeno(1,2,3-cd)pyrene(ES) | 200 | 23.38 | 66.5  | 5-150  |
| d14-Dibenz(ah)anthracene(ES)   | 200 | 23.55 | 52.3  | 5-150  |
| d12-Benzo(ghi)perylene(ES)     | 200 | 24.27 | 47.9  | 5-150  |

M Indicates that a peak has been manually integrated.

U Indicates that this compound was not detected above the MDL.

B Indicates that this compound was detected in the method blank at greater than 10% of the sample value.



# ALS Life Sciences

## Sample Analysis Report

|                                                                                                            |                          |                 |           |
|------------------------------------------------------------------------------------------------------------|--------------------------|-----------------|-----------|
| <b>Sample Name</b>                                                                                         | <b>PLOT 110 - 4 JARS</b> | Sampling Date   | 25-May-24 |
| ALS Sample ID                                                                                              | L2756078-6               | Extraction Date | 26-Jul-24 |
| Analysis Method                                                                                            | PAH by GCMS              |                 |           |
| Analysis Type                                                                                              | sample                   |                 |           |
| Sample Matrix                                                                                              | Tissue                   |                 |           |
| Sample Size                                                                                                | 2.91 g                   |                 |           |
| Percent Moisture                                                                                           | 71.5%                    |                 |           |
| Split Ratio                                                                                                | 2                        | Workgroup       | WG3789954 |
| <div> <div>Approved:</div> <div>Andrew Reid</div> <div>--e-signature--</div> <div>08-Aug-2024</div> </div> |                          |                 |           |

|                        |                  |
|------------------------|------------------|
| <b>Run Information</b> | <b>Run 1</b>     |
| Filename               | 24080624.D       |
| Run Date               | 8/6/2024 22:21   |
| Final Volume           | 1 mL             |
| Dilution Factor        | 1                |
| Analysis Units         | ng/g             |
| Instrument             | MSD-5            |
| Column                 | HP5MS US2498036H |

| Target Analytes                | Ret. Time | Concentration ng/g | Flags |
|--------------------------------|-----------|--------------------|-------|
| Naphthalene                    | 2.92      | 14.6               | B     |
| Quinoline                      | 3.20      | 5.39               |       |
| 2-Methylnaphthalene            | 3.50      | 10.9               | B     |
| 1-Methylnaphthalene            | 3.62      | 5.65               |       |
| 1,2-Dimethylnaphthalene        | 4.02      | 2.30 M             |       |
| 2,6-Dimethylnaphthalene        | 4.22      | 2.31               | B     |
| 2,3,5-Trimethylnaphthalene     | 5.56      | 1.63               |       |
| 2,3,6-Trimethylnaphthalene     | 5.40      | <1.37              | U     |
| 1,4,6,7-Tetramethylnaphthalene | 7.74      | <1.37              | U     |
| C1-Naphthalenes                | 3.50      | 14.4 M             |       |
| C2-Naphthalenes                | 4.22      | 11.0 M             | B     |
| C3-Naphthalenes                | 5.44      | 5.71 M             | B     |
| C4-Naphthalenes                | 6.51      | 6.23 M             | B     |
| Biphenyl                       | 4.02      | 1.57               |       |
| Acenaphthylene                 | 4.58      | <1.37              | U     |
| Acenaphthene                   | 4.88      | <1.37              | U     |
| C1-Biphenyl                    | 4.82      | 4.31 M             | B     |
| C2-Biphenyl                    | 5.78      | <1.37              | U     |
| C1-Acenaphthenes               | 5.56      | <1.37              | U     |
| Fluorene                       | 5.78      | 2.69               |       |
| 2-Methylfluorene               | 7.06      | 3.14 M             |       |
| 1,7-Dimethylfluorene           | 8.12      | <1.37              | U     |
| Phenanthrene                   | 7.92      | 11.4               | B     |
| 3-Methylphenanthrene           | 9.26      | 2.02               |       |
| 2-Methylphenanthrene           | 9.34      | 3.43 M             |       |
| 9/4-Methylphenanthrene         | 9.49      | <1.37              | U     |
| 1-Methylphenanthrene           | 9.57      | <1.37              | U     |
| 2-Methylanthracene             | 9.63      | <1.37              | U     |
| 1,7-Dimethylphenanthrene       | 10.61     | <1.37              | U     |
| 1,8-Dimethylphenanthrene       | 10.72     | <1.37              | U     |
| 2,6-Dimethylphenanthrene       | 10.94     | 2.42 M             |       |
| 3,6-Dimethylphenanthrene       | 11.10     | 3.96 M             |       |
| Retene                         | 13.15     | 5.49               |       |
| 1,2,6-Trimethylphenanthrene    | 13.35     | <1.37              | U     |
| Dibenzothiophene               | 7.62      | <1.37              | U     |
| 2/3-Methylbenzothiophene       | 9.02      | <1.37              | U     |
| 4,6-Dimethyldibenzothiophene   | 9.80      | 31.4               |       |
| C1-Phenanthrenes/Anthracenes   | 9.34      | 7.66 M             | B     |
| C2-Phenanthrenes/Anthracenes   | 11.10     | 3.74 M             |       |
| C3-Phenanthrenes/Anthracenes   | 12.40     | 1.65 M             |       |
| C4-Phenanthrenes/Anthracenes   | 13.15     | 1.83               |       |
| C1-Fluorenes                   | 7.06      | 2.00 M             |       |
| C2-Fluorenes                   | 8.12      | <1.37              | U     |



# ALS Life Sciences

## Sample Analysis Report

|                                                                                                            |                          |                 |           |
|------------------------------------------------------------------------------------------------------------|--------------------------|-----------------|-----------|
| <b>Sample Name</b>                                                                                         | <b>PLOT 110 - 4 JARS</b> | Sampling Date   | 25-May-24 |
| ALS Sample ID                                                                                              | L2756078-6               | Extraction Date | 26-Jul-24 |
| Analysis Method                                                                                            | PAH by GCMS              |                 |           |
| Analysis Type                                                                                              | sample                   |                 |           |
| Sample Matrix                                                                                              | Tissue                   |                 |           |
| Sample Size                                                                                                | 2.91 g                   |                 |           |
| Percent Moisture                                                                                           | 71.5%                    |                 |           |
| Split Ratio                                                                                                | 2                        | Workgroup       | WG3789954 |
| <div> <div>Approved:</div> <div>Andrew Reid</div> <div>--e-signature--</div> <div>08-Aug-2024</div> </div> |                          |                 |           |

|                                       |        |       |   |
|---------------------------------------|--------|-------|---|
| C3-Fluorenes                          | 10.72  | <1.37 | U |
| C1-Dibenzothiophenes                  | 8.78   | 2.11  | M |
| C2-Dibenzothiophenes                  | 9.80   | 37.0  | M |
| C3-Dibenzothiophenes                  | 11.21  | <1.37 | U |
| C4-Dibenzothiophenes                  | 13.16  | <1.37 | U |
| Anthracene                            | 8.04   | <1.37 | U |
| Fluoranthene                          | 11.28  | 3.82  | B |
| 1-Methylfluoranthene                  | 13.07  | <1.37 | U |
| 3-Methylfluoranthene/Benzo(a)fluorene | 13.32  | <1.37 | U |
| Pyrene                                | 11.91  | 1.87  |   |
| C1-Fluoranthenes/Pyrenes              | 13.32  | <1.37 | U |
| C2-Fluoranthenes/Pyrenes              | NotFnd | <1.37 | U |
| C3-Fluoranthenes/Pyrenes              | NotFnd | <1.37 | U |
| C4-Fluoranthenes/Pyrenes              | NotFnd | <1.37 | U |
| Benzo(a)anthracene                    | 15.81  | <1.37 | U |
| 7,12-Dimethylbenz(a)anthracene        | NotFnd | <1.37 | U |
| C1-Benz(a)anthracenes/Chrysenes       | NotFnd | <1.37 | U |
| C2-Benz(a)anthracenes/Chrysenes       | NotFnd | <1.37 | U |
| C3-Benz(a)anthracenes/Chrysenes       | NotFnd | <1.37 | U |
| C4-Benz(a)anthracenes/Chrysenes       | NotFnd | <1.37 | U |
| Chrysene/Triphenylene                 | 15.91  | 4.38  |   |
| 1-Methylchrysene                      | NotFnd | <1.37 | U |
| 5/6-Methylchrysene                    | NotFnd | <1.37 | U |
| 3,11/5,9-Dimethylchrysene             | NotFnd | <1.37 | U |
| Benzo(b)fluoranthene                  | 19.14  | 2.22  | M |
| Benzo(k)fluoranthene                  | 19.22  | 3.67  |   |
| Benzo(e)Pyrene                        | NotFnd | <1.37 | U |
| C1-Benzofluoranthenes/BAPs            | NotFnd | <1.37 | U |
| C2-Benzofluoranthenes/BAPs            | NotFnd | <1.37 | U |
| Benzo(a)pyrene                        | NotFnd | <1.37 | U |
| 7-Methylbenzo(a)pyrene                | NotFnd | <1.37 | U |
| Perylene                              | NotFnd | <1.37 | U |
| Indeno(1,2,3-cd)pyrene                | 23.46  | <1.37 | U |
| Dibenz(ah)anthracene                  | 23.65  | <1.37 | U |
| Benzo(ghi)perylene                    | 24.37  | <1.37 | U |

| Extraction Standards           |     |       | % Rec | Limits |
|--------------------------------|-----|-------|-------|--------|
| d8-Naphthalene(ES)             | 200 | 2.91  | 67.3  | 5-150  |
| d10-2-Methylnaphthalene(ES)    | 200 | 3.47  | 81.1  | 5-150  |
| d8-Acenaphthylene(ES)          | 200 | 4.58  | 88.7  | 5-150  |
| d10-Phenanthrene(ES)           | 200 | 7.87  | 67.3  | 5-150  |
| d10-Anthracene(ES)             | 200 | 7.99  | 63.8  | 5-150  |
| d10-Fluoranthene(ES)           | 200 | 11.22 | 69.3  | 5-150  |
| d12-Benzo(a)anthracene(ES)     | 200 | 15.74 | 66.8  | 5-150  |
| d12-Chrysene(ES)               | 200 | 15.85 | 69.1  | 5-150  |
| d12-Benzo(b)fluoranthene(ES)   | 200 | 19.07 | 55.6  | 5-150  |
| d12-Benzo(k)fluoranthene(ES)   | 200 | 19.15 | 62.1  | 5-150  |
| d12-Benzo(a)pyrene(ES)         | 200 | 19.95 | 68.9  | 5-150  |
| d12-Perylene(ES)               | 200 | 20.18 | 64.6  | 5-150  |
| d12-Indeno(1,2,3-cd)pyrene(ES) | 200 | 23.38 | 62.8  | 5-150  |
| d14-Dibenz(ah)anthracene(ES)   | 200 | 23.55 | 49.2  | 5-150  |
| d12-Benzo(ghi)perylene(ES)     | 200 | 24.27 | 44.2  | 5-150  |

M Indicates that a peak has been manually integrated.  
U Indicates that this compound was not detected above the MDL.  
  
B Indicates that this compound was detected in the method blank at greater than 10% of the sample value.

# ALS Life Sciences

## Sample Analysis Report

|                                                                          |                          |                 |           |
|--------------------------------------------------------------------------|--------------------------|-----------------|-----------|
| <b>Sample Name</b>                                                       | <b>PLOT 114 - 4 JARS</b> | Sampling Date   | 25-May-24 |
| ALS Sample ID                                                            | L2756078-7               | Extraction Date | 26-Jul-24 |
| Analysis Method                                                          | PAH by GCMS              |                 |           |
| Analysis Type                                                            | sample                   |                 |           |
| Sample Matrix                                                            | Tissue                   |                 |           |
| Sample Size                                                              | 2.89 g                   |                 |           |
| Percent Moisture                                                         | 71.5%                    |                 |           |
| Split Ratio                                                              | 2                        | Workgroup       | WG3789954 |
| <div>Approved:<br/>Andrew Reid<br/>--e-signature--<br/>08-Aug-2024</div> |                          |                 |           |

|                        |                  |
|------------------------|------------------|
| <b>Run Information</b> | <b>Run 1</b>     |
| Filename               | 24080625.D       |
| Run Date               | 8/6/2024 22:58   |
| Final Volume           | 1 mL             |
| Dilution Factor        | 1                |
| Analysis Units         | ng/g             |
| Instrument             | MSD-5            |
| Column                 | HP5MS US2498036H |

| Target Analytes                | Ret. Time | Concentration ng/g | Flags |
|--------------------------------|-----------|--------------------|-------|
| Naphthalene                    | 2.92      | 62.9               | B     |
| Quinoline                      | 3.20      | 4.68               |       |
| 2-Methylnaphthalene            | 3.50      | 32.6               |       |
| 1-Methylnaphthalene            | 3.61      | 15.9               |       |
| 1,2-Dimethylnaphthalene        | 4.02      | 3.21               |       |
| 2,6-Dimethylnaphthalene        | 4.22      | 4.58               | B     |
| 2,3,5-Trimethylnaphthalene     | 5.56      | 2.94               |       |
| 2,3,6-Trimethylnaphthalene     | 5.40      | <1.39              | U     |
| 1,4,6,7-Tetramethylnaphthalene | 7.62      | 3.06 M             |       |
| C1-Naphthalenes                | 3.50      | 40.4 M             | B     |
| C2-Naphthalenes                | 4.22      | 19.9 M             | B     |
| C3-Naphthalenes                | 5.42      | 11.2 M             | B     |
| C4-Naphthalenes                | 6.51      | 7.87 M             | B     |
| Biphenyl                       | 4.02      | 2.36               |       |
| Acenaphthylene                 | 4.59      | <1.39              | U     |
| Acenaphthene                   | 4.88      | <1.39              | U     |
| C1-Biphenyl                    | 4.82      | 6.14 M             | B     |
| C2-Biphenyl                    | 5.78      | <1.39              | U     |
| C1-Acenaphthenes               | 5.56      | 1.72               |       |
| Fluorene                       | 5.78      | 4.78               |       |
| 2-Methylfluorene               | 7.06      | 4.95 M             |       |
| 1,7-Dimethylfluorene           | 8.12      | <1.39              | U     |
| Phenanthrene                   | 7.92      | 16.4               | B     |
| 3-Methylphenanthrene           | 9.26      | 2.80               |       |
| 2-Methylphenanthrene           | 9.34      | 4.06 M             |       |
| 9/4-Methylphenanthrene         | 9.51      | <1.39              | U     |
| 1-Methylphenanthrene           | 9.57      | 1.63 M             |       |
| 2-Methylanthracene             | 9.63      | <1.39              | U     |
| 1,7-Dimethylphenanthrene       | 10.61     | <1.39              | U     |
| 1,8-Dimethylphenanthrene       | 10.72     | <1.39              | U     |
| 2,6-Dimethylphenanthrene       | 10.95     | 3.24 M             |       |
| 3,6-Dimethylphenanthrene       | 11.10     | 3.98 M             |       |
| Retene                         | 13.15     | 6.28               |       |
| 1,2,6-Trimethylphenanthrene    | 13.35     | <1.39              | U     |
| Dibenzothiophene               | 7.62      | <1.39              | U     |
| 2/3-Methylbenzothiophene       | 9.02      | <1.39              | U     |
| 4,6-Dimethyldibenzothiophene   | 9.80      | 16.7               |       |
| C1-Phenanthrenes/Anthracenes   | 9.34      | 9.81 M             | B     |
| C2-Phenanthrenes/Anthracenes   | 10.72     | 2.48 M             |       |
| C3-Phenanthrenes/Anthracenes   | 12.39     | <1.39              | U     |
| C4-Phenanthrenes/Anthracenes   | 13.15     | 2.09               |       |
| C1-Fluorenes                   | 7.06      | 3.18 M             |       |
| C2-Fluorenes                   | 8.12      | <1.39              | U     |

# ALS Life Sciences

## Sample Analysis Report

|                                                                                               |                          |                 |           |
|-----------------------------------------------------------------------------------------------|--------------------------|-----------------|-----------|
| <b>Sample Name</b>                                                                            | <b>PLOT 114 - 4 JARS</b> | Sampling Date   | 25-May-24 |
| ALS Sample ID                                                                                 | L2756078-7               | Extraction Date | 26-Jul-24 |
| Analysis Method                                                                               | PAH by GCMS              |                 |           |
| Analysis Type                                                                                 | sample                   |                 |           |
| Sample Matrix                                                                                 | Tissue                   |                 |           |
| Sample Size                                                                                   | 2.89 g                   |                 |           |
| Percent Moisture                                                                              | 71.5%                    |                 |           |
| Split Ratio                                                                                   | 2                        | Workgroup       | WG3789954 |
| <div>Approved:</div> <div>Andrew Reid</div> <div>--e-signature--</div> <div>08-Aug-2024</div> |                          |                 |           |

|                                       |        |       |   |
|---------------------------------------|--------|-------|---|
| C3-Fluorenes                          | 10.72  | <1.39 | U |
| C1-Dibenzothiophenes                  | 8.78   | 1.83  | M |
| C2-Dibenzothiophenes                  | 9.80   | 17.8  | M |
| C3-Dibenzothiophenes                  | 11.21  | <1.39 | U |
| C4-Dibenzothiophenes                  | 13.18  | <1.39 | U |
| Anthracene                            | 7.99   | <1.39 | U |
| Fluoranthene                          | 11.28  | 4.72  | B |
| 1-Methylfluoranthene                  | 13.05  | <1.39 | U |
| 3-Methylfluoranthene/Benzo(a)fluorene | 13.32  | <1.39 | U |
| Pyrene                                | 11.91  | 2.60  |   |
| C1-Fluoranthenes/Pyrenes              | 13.04  | 1.95  | M |
| C2-Fluoranthenes/Pyrenes              | NotFnd | <1.39 | U |
| C3-Fluoranthenes/Pyrenes              | NotFnd | <1.39 | U |
| C4-Fluoranthenes/Pyrenes              | NotFnd | <1.39 | U |
| Benzo(a)anthracene                    | 15.80  | <1.39 | U |
| 7,12-Dimethylbenz(a)anthracene        | NotFnd | <1.39 | U |
| C1-Benz(a)anthracenes/Chrysenes       | NotFnd | <1.39 | U |
| C2-Benz(a)anthracenes/Chrysenes       | NotFnd | <1.39 | U |
| C3-Benz(a)anthracenes/Chrysenes       | NotFnd | <1.39 | U |
| C4-Benz(a)anthracenes/Chrysenes       | NotFnd | <1.39 | U |
| Chrysene/Triphenylene                 | 15.91  | 3.63  |   |
| 1-Methylchrysene                      | NotFnd | <1.39 | U |
| 5/6-Methylchrysene                    | NotFnd | <1.39 | U |
| 3,11/5,9-Dimethylchrysene             | NotFnd | <1.39 | U |
| Benzo(b)fluoranthene                  | 19.13  | 2.04  |   |
| Benzo(k)fluoranthene                  | 19.22  | 3.81  | M |
| Benzo(e)Pyrene                        | NotFnd | <1.39 | U |
| C1-Benzofluoranthenes/BAPs            | NotFnd | <1.39 | U |
| C2-Benzofluoranthenes/BAPs            | NotFnd | <1.39 | U |
| Benzo(a)pyrene                        | NotFnd | <1.39 | U |
| 7-Methylbenzo(a)pyrene                | NotFnd | <1.39 | U |
| Perylene                              | NotFnd | <1.39 | U |
| Indeno(1,2,3-cd)pyrene                | 23.46  | <1.39 | U |
| Dibenz(ah)anthracene                  | 23.66  | <1.39 | U |
| Benzo(ghi)perylene                    | 24.37  | <1.39 | U |

| Extraction Standards           |     |       | % Rec | Limits |
|--------------------------------|-----|-------|-------|--------|
| d8-Naphthalene(ES)             | 200 | 2.91  | 66.0  | 5-150  |
| d10-2-Methylnaphthalene(ES)    | 200 | 3.47  | 81.6  | 5-150  |
| d8-Acenaphthylene(ES)          | 200 | 4.58  | 87.5  | 5-150  |
| d10-Phenanthrene(ES)           | 200 | 7.87  | 71.0  | 5-150  |
| d10-Anthracene(ES)             | 200 | 7.99  | 65.0  | 5-150  |
| d10-Fluoranthene(ES)           | 200 | 11.22 | 71.7  | 5-150  |
| d12-Benzo(a)anthracene(ES)     | 200 | 15.74 | 62.7  | 5-150  |
| d12-Chrysene(ES)               | 200 | 15.85 | 65.8  | 5-150  |
| d12-Benzo(b)fluoranthene(ES)   | 200 | 19.07 | 52.2  | 5-150  |
| d12-Benzo(k)fluoranthene(ES)   | 200 | 19.15 | 62.8  | 5-150  |
| d12-Benzo(a)pyrene(ES)         | 200 | 19.95 | 65.5  | 5-150  |
| d12-Perylene(ES)               | 200 | 20.18 | 63.8  | 5-150  |
| d12-Indeno(1,2,3-cd)pyrene(ES) | 200 | 23.38 | 69.1  | 5-150  |
| d14-Dibenz(ah)anthracene(ES)   | 200 | 23.55 | 54.6  | 5-150  |
| d12-Benzo(ghi)perylene(ES)     | 200 | 24.27 | 46.0  | 5-150  |

|   |                                                                                                        |
|---|--------------------------------------------------------------------------------------------------------|
| M | Indicates that a peak has been manually integrated.                                                    |
| U | Indicates that this compound was not detected above the MDL.                                           |
| B | Indicates that this compound was detected in the method blank at greater than 10% of the sample value. |

# ALS Life Sciences

## Sample Analysis Report

|                                                                                                            |                         |                 |           |
|------------------------------------------------------------------------------------------------------------|-------------------------|-----------------|-----------|
| <b>Sample Name</b>                                                                                         | <b>PLOT 117 - 1 JAR</b> | Sampling Date   | 25-May-24 |
| ALS Sample ID                                                                                              | L2756078-8              | Extraction Date | 26-Jul-24 |
| Analysis Method                                                                                            | PAH by GCMS             |                 |           |
| Analysis Type                                                                                              | sample                  |                 |           |
| Sample Matrix                                                                                              | Tissue                  |                 |           |
| Sample Size                                                                                                | 0.32 g                  |                 |           |
| Percent Moisture                                                                                           | 70.0%                   |                 |           |
| Split Ratio                                                                                                | 2                       | Workgroup       | WG3789954 |
| <div> <div>Approved:</div> <div>Andrew Reid</div> <div>--e-signature--</div> <div>08-Aug-2024</div> </div> |                         |                 |           |

|                        |                  |
|------------------------|------------------|
| <b>Run Information</b> | <b>Run 1</b>     |
| Filename               | 24080626.D       |
| Run Date               | 8/6/2024 23:36   |
| Final Volume           | 1 mL             |
| Dilution Factor        | 1                |
| Analysis Units         | ng/g             |
| Instrument             | MSD-5            |
| Column                 | HP5MS UST530312H |

| Target Analytes                | Ret. Time | Concentration ng/g | Flags |
|--------------------------------|-----------|--------------------|-------|
| Naphthalene                    | 2.93      | 84.2               |       |
| Quinoline                      | 3.18      | 15.1 M             |       |
| 2-Methylnaphthalene            | 3.50      | 39.1               |       |
| 1-Methylnaphthalene            | 3.62      | 18.3               |       |
| 1,2-Dimethylnaphthalene        | 4.02      | <12.4              | U     |
| 2,6-Dimethylnaphthalene        | 4.23      | <12.4              | U     |
| 2,3,5-Trimethylnaphthalene     | 5.56      | <12.4              | U     |
| 2,3,6-Trimethylnaphthalene     | 5.40      | <12.4              | U     |
| 1,4,6,7-Tetramethylnaphthalene | NotFnd    | <12.4              | U     |
| C1-Naphthalenes                | 3.50      | 47.7 M             |       |
| C2-Naphthalenes                | 4.02      | 43.1 M             |       |
| C3-Naphthalenes                | 5.44      | 32.0 M             |       |
| C4-Naphthalenes                | 6.15      | 22.7 M             | B     |
| Biphenyl                       | 4.02      | <12.4              | U     |
| Acenaphthylene                 | 4.58      | <12.4              | U     |
| Acenaphthene                   | 4.88      | <12.4              | U     |
| C1-Biphenyl                    | 4.82      | 26.4 M             |       |
| C2-Biphenyl                    | 5.78      | <12.4              | U     |
| C1-Acenaphthenes               | 5.56      | <12.4              | U     |
| Fluorene                       | 5.78      | 13.6               |       |
| 2-Methylfluorene               | 7.06      | 18.5 M             |       |
| 1,7-Dimethylfluorene           | 8.12      | <12.4              | U     |
| Phenanthrene                   | 7.92      | 60.4               |       |
| 3-Methylphenanthrene           | 9.26      | <12.4              | U     |
| 2-Methylphenanthrene           | 9.34      | 13.3 M             |       |
| 9/4-Methylphenanthrene         | 9.45      | <12.4              | U     |
| 1-Methylphenanthrene           | 9.57      | <12.4              | U     |
| 2-Methylanthracene             | 9.63      | <12.4              | U     |
| 1,7-Dimethylphenanthrene       | 10.61     | <12.4              | U     |
| 1,8-Dimethylphenanthrene       | 10.72     | <12.4              | U     |
| 2,6-Dimethylphenanthrene       | 10.95     | <12.4              | U     |
| 3,6-Dimethylphenanthrene       | 11.10     | <12.4              | U     |
| Retene                         | 13.15     | <12.4              | U     |
| 1,2,6-Trimethylphenanthrene    | 13.35     | <12.4              | U     |
| Dibenzothiophene               | 7.62      | <12.4              | U     |
| 2/3-Methylbenzothiophene       | 9.02      | <12.4              | U     |
| 4,6-Dimethyldibenzothiophene   | 9.80      | <12.4              | U     |
| C1-Phenanthrenes/Anthracenes   | 9.34      | 32.8 M             |       |
| C2-Phenanthrenes/Anthracenes   | 10.95     | <12.4              | U     |
| C3-Phenanthrenes/Anthracenes   | 12.27     | <12.4              | U     |
| C4-Phenanthrenes/Anthracenes   | 13.15     | <12.4              | U     |
| C1-Fluorenes                   | 7.06      | <12.4              | U     |
| C2-Fluorenes                   | 8.12      | <12.4              | U     |

# ALS Life Sciences

## Sample Analysis Report

|                                                                                               |                         |                 |           |
|-----------------------------------------------------------------------------------------------|-------------------------|-----------------|-----------|
| <b>Sample Name</b>                                                                            | <b>PLOT 117 - 1 JAR</b> | Sampling Date   | 25-May-24 |
| ALS Sample ID                                                                                 | L2756078-8              | Extraction Date | 26-Jul-24 |
| Analysis Method                                                                               | PAH by GCMS             |                 |           |
| Analysis Type                                                                                 | sample                  |                 |           |
| Sample Matrix                                                                                 | Tissue                  |                 |           |
| Sample Size                                                                                   | 0.32 g                  |                 |           |
| Percent Moisture                                                                              | 70.0%                   |                 |           |
| Split Ratio                                                                                   | 2                       | Workgroup       | WG3789954 |
| <div>Approved:</div> <div>Andrew Reid</div> <div>--e-signature--</div> <div>08-Aug-2024</div> |                         |                 |           |

|                                       |        |       |   |
|---------------------------------------|--------|-------|---|
| C3-Fluorenes                          | 10.72  | <12.4 | U |
| C1-Dibenzothiophenes                  | 8.78   | <12.4 | U |
| C2-Dibenzothiophenes                  | 9.99   | <12.4 | U |
| C3-Dibenzothiophenes                  | 11.07  | <12.4 | U |
| C4-Dibenzothiophenes                  | 12.99  | <12.4 | U |
| Anthracene                            | 8.04   | <12.4 | U |
| Fluoranthene                          | 11.28  | 20.2  |   |
| 1-Methylfluoranthene                  | 13.09  | <12.4 | U |
| 3-Methylfluoranthene/Benzo(a)fluorene | 13.32  | <12.4 | U |
| Pyrene                                | 11.91  | 12.7  |   |
| C1-Fluoranthenes/Pyrenes              | 13.37  | <12.4 | U |
| C2-Fluoranthenes/Pyrenes              | NotFnd | <12.4 | U |
| C3-Fluoranthenes/Pyrenes              | NotFnd | <12.4 | U |
| C4-Fluoranthenes/Pyrenes              | NotFnd | <12.4 | U |
| Benzo(a)anthracene                    | 15.81  | <12.4 | U |
| 7,12-Dimethylbenz(a)anthracene        | NotFnd | <12.4 | U |
| C1-Benz(a)anthracenes/Chrysenes       | NotFnd | <12.4 | U |
| C2-Benz(a)anthracenes/Chrysenes       | NotFnd | <12.4 | U |
| C3-Benz(a)anthracenes/Chrysenes       | NotFnd | <12.4 | U |
| C4-Benz(a)anthracenes/Chrysenes       | NotFnd | <12.4 | U |
| Chrysene/Triphenylene                 | 15.91  | <12.4 | U |
| 1-Methylchrysene                      | NotFnd | <12.4 | U |
| 5/6-Methylchrysene                    | NotFnd | <12.4 | U |
| 3,11/5,9-Dimethylchrysene             | NotFnd | <12.4 | U |
| Benzo(b)fluoranthene                  | 19.14  | <12.4 | U |
| Benzo(k)fluoranthene                  | 19.22  | <12.4 | U |
| Benzo(e)Pyrene                        | NotFnd | <12.4 | U |
| C1-Benzofluoranthenes/BAPs            | NotFnd | <12.4 | U |
| C2-Benzofluoranthenes/BAPs            | NotFnd | <12.4 | U |
| Benzo(a)pyrene                        | NotFnd | <12.4 | U |
| 7-Methylbenzo(a)pyrene                | NotFnd | <12.4 | U |
| Perylene                              | NotFnd | <12.4 | U |
| Indeno(1,2,3-cd)pyrene                | NotFnd | <12.4 | U |
| Dibenz(ah)anthracene                  | 23.65  | <12.4 | U |
| Benzo(ghi)perylene                    | 24.37  | <12.4 | U |

| Extraction Standards           |     |       | % Rec | Limits |
|--------------------------------|-----|-------|-------|--------|
| d8-Naphthalene(ES)             | 200 | 2.91  | 45.5  | 5-150  |
| d10-2-Methylnaphthalene(ES)    | 200 | 3.48  | 63.0  | 5-150  |
| d8-Acenaphthylene(ES)          | 200 | 4.58  | 77.2  | 5-150  |
| d10-Phenanthrene(ES)           | 200 | 7.87  | 64.9  | 5-150  |
| d10-Anthracene(ES)             | 200 | 7.99  | 61.2  | 5-150  |
| d10-Fluoranthene(ES)           | 200 | 11.23 | 60.6  | 5-150  |
| d12-Benzo(a)anthracene(ES)     | 200 | 15.74 | 60.6  | 5-150  |
| d12-Chrysene(ES)               | 200 | 15.85 | 68.6  | 5-150  |
| d12-Benzo(b)fluoranthene(ES)   | 200 | 19.07 | 48.0  | 5-150  |
| d12-Benzo(k)fluoranthene(ES)   | 200 | 19.15 | 58.0  | 5-150  |
| d12-Benzo(a)pyrene(ES)         | 200 | 19.95 | 54.2  | 5-150  |
| d12-Perylene(ES)               | 200 | 20.18 | 60.4  | 5-150  |
| d12-Indeno(1,2,3-cd)pyrene(ES) | 200 | 23.38 | 62.5  | 5-150  |
| d14-Dibenz(ah)anthracene(ES)   | 200 | 23.55 | 49.2  | 5-150  |
| d12-Benzo(ghi)perylene(ES)     | 200 | 24.27 | 40.0  | 5-150  |

|   |                                                                                                        |
|---|--------------------------------------------------------------------------------------------------------|
| M | Indicates that a peak has been manually integrated.                                                    |
| U | Indicates that this compound was not detected above the MDL.                                           |
| B | Indicates that this compound was detected in the method blank at greater than 10% of the sample value. |

| ALS Life Sciences              |                   |                    |                 |                                                            |
|--------------------------------|-------------------|--------------------|-----------------|------------------------------------------------------------|
| Sample Analysis Report         |                   |                    |                 |                                                            |
| Sample Name                    | PLOT 123 - 3 JARS |                    | Sampling Date   | 25-May-24                                                  |
| ALS Sample ID                  | L2756078-9        |                    | Extraction Date | 26-Jul-24                                                  |
| Analysis Method                | PAH by GCMS       |                    |                 |                                                            |
| Analysis Type                  | sample            |                    |                 |                                                            |
| Sample Matrix                  | Tissue            |                    |                 | Approved:<br>Andrew Reid<br>--e-signature--<br>08-Aug-2024 |
| Sample Size                    | 2.80              | g                  |                 |                                                            |
| Percent Moisture               | 72.1%             |                    |                 |                                                            |
| Split Ratio                    | 2                 |                    | Workgroup       |                                                            |
|                                |                   |                    | WG3789954       |                                                            |
| Run Information                | Run 1             |                    |                 |                                                            |
| Filename                       | 24080627.D        |                    |                 |                                                            |
| Run Date                       | 8/7/2024 0:14     |                    |                 |                                                            |
| Final Volume                   | 1 mL              |                    |                 |                                                            |
| Dilution Factor                | 1                 |                    |                 |                                                            |
| Analysis Units                 | ng/g              |                    |                 |                                                            |
| Instrument                     | MSD-5             |                    |                 |                                                            |
| Column                         | HP5MS UST530312H  |                    |                 |                                                            |
| Target Analytes                | Ret. Time         | Concentration ng/g | Flags           |                                                            |
| Naphthalene                    | 2.93              | 48.8               | B               |                                                            |
| Quinoline                      | 3.20              | 12.4               |                 |                                                            |
| 2-Methylnaphthalene            | 3.50              | 28.2               |                 |                                                            |
| 1-Methylnaphthalene            | 3.61              | 13.5               |                 |                                                            |
| 1,2-Dimethylnaphthalene        | 4.02              | 5.14               |                 |                                                            |
| 2,6-Dimethylnaphthalene        | 4.23              | 5.85               | B               |                                                            |
| 2,3,5-Trimethylnaphthalene     | 5.56              | 3.13               |                 |                                                            |
| 2,3,6-Trimethylnaphthalene     | 5.40              | 1.49 M             |                 |                                                            |
| 1,4,6,7-Tetramethylnaphthalene | 7.74              | 2.71 M             |                 |                                                            |
| C1-Naphthalenes                | 3.50              | 35.0 M             |                 |                                                            |
| C2-Naphthalenes                | 4.23              | 25.6 M             |                 |                                                            |
| C3-Naphthalenes                | 5.44              | 11.2 M             | B               |                                                            |
| C4-Naphthalenes                | 6.70              | 9.95 M             | B               |                                                            |
| Biphenyl                       | 4.02              | 3.2                |                 |                                                            |
| Acenaphthylene                 | 4.59              | <1.43              | U               |                                                            |
| Acenaphthene                   | 4.88              | <1.43              | U               |                                                            |
| C1-Biphenyl                    | 4.82              | 6.92 M             | B               |                                                            |
| C2-Biphenyl                    | 5.89              | 2.28 M             |                 |                                                            |
| C1-Acenaphthenes               | 5.56              | 1.64               |                 |                                                            |
| Fluorene                       | 5.78              | 3.77               |                 |                                                            |
| 2-Methylfluorene               | 7.06              | 4.35 M             |                 |                                                            |
| 1,7-Dimethylfluorene           | 8.13              | <1.43              | U               |                                                            |
| Phenanthrene                   | 7.92              | 14.1               | B               |                                                            |
| 3-Methylphenanthrene           | 9.26              | 3.09 M             |                 |                                                            |
| 2-Methylphenanthrene           | 9.34              | 4.02 M             |                 |                                                            |
| 9/4-Methylphenanthrene         | 9.49              | <1.43              | U               |                                                            |
| 1-Methylphenanthrene           | 9.57              | <1.43              | U               |                                                            |
| 2-Methylanthracene             | 9.63              | <1.43              | U               |                                                            |
| 1,7-Dimethylphenanthrene       | 10.61             | <1.43              | U               |                                                            |
| 1,8-Dimethylphenanthrene       | 10.72             | <1.43              | U               |                                                            |
| 2,6-Dimethylphenanthrene       | 10.94             | 4.06 M             |                 |                                                            |
| 3,6-Dimethylphenanthrene       | 11.10             | 3.85 M             |                 |                                                            |
| Retene                         | 13.15             | 7.68               |                 |                                                            |
| 1,2,6-Trimethylphenanthrene    | 13.35             | <1.43              | U               |                                                            |
| Dibenzothiophene               | 7.62              | <1.43              | U               |                                                            |
| 2/3-Methylbenzothiophene       | 9.02              | <1.43              | U               |                                                            |
| 4,6-Dimethyldibenzothiophene   | 9.80              | 51.2               |                 |                                                            |
| C1-Phenanthrenes/Anthracenes   | 9.34              | 11.3 M             | B               |                                                            |
| C2-Phenanthrenes/Anthracenes   | 11.10             | 4.61 M             |                 |                                                            |
| C3-Phenanthrenes/Anthracenes   | 12.31             | <1.43              | U               |                                                            |
| C4-Phenanthrenes/Anthracenes   | 13.15             | 2.55               |                 |                                                            |
| C1-Fluorenes                   | 7.06              | 2.86 M             |                 |                                                            |
| C2-Fluorenes                   | 8.00              | <1.43              | U               |                                                            |

# ALS Life Sciences

## Sample Analysis Report

|                                                                                                            |                          |                 |           |
|------------------------------------------------------------------------------------------------------------|--------------------------|-----------------|-----------|
| <b>Sample Name</b>                                                                                         | <b>PLOT 123 - 3 JARS</b> | Sampling Date   | 25-May-24 |
| ALS Sample ID                                                                                              | L2756078-9               | Extraction Date | 26-Jul-24 |
| Analysis Method                                                                                            | PAH by GCMS              |                 |           |
| Analysis Type                                                                                              | sample                   |                 |           |
| Sample Matrix                                                                                              | Tissue                   |                 |           |
| Sample Size                                                                                                | 2.80 g                   |                 |           |
| Percent Moisture                                                                                           | 72.1%                    |                 |           |
| Split Ratio                                                                                                | 2                        | Workgroup       | WG3789954 |
| <div> <div>Approved:</div> <div>Andrew Reid</div> <div>--e-signature--</div> <div>08-Aug-2024</div> </div> |                          |                 |           |

|                                       |        |       |   |
|---------------------------------------|--------|-------|---|
| C3-Fluorenes                          | 10.72  | <1.43 | U |
| C1-Dibenzothiophenes                  | 8.78   | 2.99  | M |
| C2-Dibenzothiophenes                  | 9.80   | 60.4  | M |
| C3-Dibenzothiophenes                  | 11.38  | <1.43 | U |
| C4-Dibenzothiophenes                  | 13.15  | <1.43 | U |
| Anthracene                            | 8.04   | <1.43 | U |
| Fluoranthene                          | 11.28  | 4.15  | B |
| 1-Methylfluoranthene                  | 13.07  | <1.43 | U |
| 3-Methylfluoranthene/Benzo(a)fluorene | 13.32  | <1.43 | U |
| Pyrene                                | 11.91  | 2.47  |   |
| C1-Fluoranthenes/Pyrenes              | 13.07  | 2.65  | M |
| C2-Fluoranthenes/Pyrenes              | NotFnd | <1.43 | U |
| C3-Fluoranthenes/Pyrenes              | NotFnd | <1.43 | U |
| C4-Fluoranthenes/Pyrenes              | NotFnd | <1.43 | U |
| Benzo(a)anthracene                    | 15.81  | <1.43 | U |
| 7,12-Dimethylbenz(a)anthracene        | NotFnd | <1.43 | U |
| C1-Benz(a)anthracenes/Chrysenes       | NotFnd | <1.43 | U |
| C2-Benz(a)anthracenes/Chrysenes       | NotFnd | <1.43 | U |
| C3-Benz(a)anthracenes/Chrysenes       | NotFnd | <1.43 | U |
| C4-Benz(a)anthracenes/Chrysenes       | NotFnd | <1.43 | U |
| Chrysene/Triphenylene                 | 15.91  | 6.23  |   |
| 1-Methylchrysene                      | NotFnd | <1.43 | U |
| 5/6-Methylchrysene                    | NotFnd | <1.43 | U |
| 3,11/5,9-Dimethylchrysene             | NotFnd | <1.43 | U |
| Benzo(b)fluoranthene                  | 19.13  | 2.72  | M |
| Benzo(k)fluoranthene                  | 19.22  | 3.30  | M |
| Benzo(e)Pyrene                        | NotFnd | <1.43 | U |
| C1-Benzofluoranthenes/BAPs            | NotFnd | <1.43 | U |
| C2-Benzofluoranthenes/BAPs            | NotFnd | <1.43 | U |
| Benzo(a)pyrene                        | NotFnd | <1.43 | U |
| 7-Methylbenzo(a)pyrene                | NotFnd | <1.43 | U |
| Perylene                              | NotFnd | <1.43 | U |
| Indeno(1,2,3-cd)pyrene                | 23.46  | <1.43 | U |
| Dibenz(ah)anthracene                  | 23.66  | <1.43 | U |
| Benzo(ghi)perylene                    | 24.37  | <1.43 | U |

| Extraction Standards           |     |       | % Rec | Limits |
|--------------------------------|-----|-------|-------|--------|
| d8-Naphthalene(ES)             | 200 | 2.91  | 45.6  | 5-150  |
| d10-2-Methylnaphthalene(ES)    | 200 | 3.48  | 60.1  | 5-150  |
| d8-Acenaphthylene(ES)          | 200 | 4.58  | 75.5  | 5-150  |
| d10-Phenanthrene(ES)           | 200 | 7.87  | 65.4  | 5-150  |
| d10-Anthracene(ES)             | 200 | 7.99  | 60.2  | 5-150  |
| d10-Fluoranthene(ES)           | 200 | 11.22 | 70.2  | 5-150  |
| d12-Benzo(a)anthracene(ES)     | 200 | 15.74 | 68.3  | 5-150  |
| d12-Chrysene(ES)               | 200 | 15.85 | 67.5  | 5-150  |
| d12-Benzo(b)fluoranthene(ES)   | 200 | 19.07 | 59.6  | 5-150  |
| d12-Benzo(k)fluoranthene(ES)   | 200 | 19.15 | 70.7  | 5-150  |
| d12-Benzo(a)pyrene(ES)         | 200 | 19.95 | 70.9  | 5-150  |
| d12-Perylene(ES)               | 200 | 20.18 | 63.2  | 5-150  |
| d12-Indeno(1,2,3-cd)pyrene(ES) | 200 | 23.38 | 63.2  | 5-150  |
| d14-Dibenz(ah)anthracene(ES)   | 200 | 23.55 | 49.3  | 5-150  |
| d12-Benzo(ghi)perylene(ES)     | 200 | 24.27 | 38.1  | 5-150  |

|   |                                                                                                        |
|---|--------------------------------------------------------------------------------------------------------|
| M | Indicates that a peak has been manually integrated.                                                    |
| U | Indicates that this compound was not detected above the MDL.                                           |
| B | Indicates that this compound was detected in the method blank at greater than 10% of the sample value. |



# ALS Life Sciences

## Sample Analysis Report

|                                                                          |                          |                 |           |
|--------------------------------------------------------------------------|--------------------------|-----------------|-----------|
| <b>Sample Name</b>                                                       | <b>PLOT 402 - 6 JARS</b> | Sampling Date   | 25-May-24 |
| ALS Sample ID                                                            | L2756078-10              | Extraction Date | 26-Jul-24 |
| Analysis Method                                                          | PAH by GCMS              |                 |           |
| Analysis Type                                                            | sample                   |                 |           |
| Sample Matrix                                                            | Tissue                   |                 |           |
| Sample Size                                                              | 2.78 g                   |                 |           |
| Percent Moisture                                                         | 72.7%                    |                 |           |
| Split Ratio                                                              | 2                        | Workgroup       | WG3789954 |
| <div>Approved:<br/>Andrew Reid<br/>--e-signature--<br/>08-Aug-2024</div> |                          |                 |           |

|                        |                  |
|------------------------|------------------|
| <b>Run Information</b> | <b>Run 1</b>     |
| Filename               | 24080628.D       |
| Run Date               | 8/7/2024 0:51    |
| Final Volume           | 1 mL             |
| Dilution Factor        | 1                |
| Analysis Units         | ng/g             |
| Instrument             | MSD-5            |
| Column                 | HP5MS UST530312H |

| Target Analytes                | Ret. Time | Concentration ng/g | Flags |
|--------------------------------|-----------|--------------------|-------|
| Naphthalene                    | 2.93      | 15.6               | B     |
| Quinoline                      | NotFnd    | <1.44              | U     |
| 2-Methylnaphthalene            | 3.51      | 10.0               | B     |
| 1-Methylnaphthalene            | 3.61      | 4.73               |       |
| 1,2-Dimethylnaphthalene        | 4.02      | 2.84 M             |       |
| 2,6-Dimethylnaphthalene        | 4.23      | 2.48               | B     |
| 2,3,5-Trimethylnaphthalene     | 5.56      | <1.44              | U     |
| 2,3,6-Trimethylnaphthalene     | 5.40      | <1.44              | U     |
| 1,4,6,7-Tetramethylnaphthalene | NotFnd    | <1.44              | U     |
| C1-Naphthalenes                | 3.51      | 12.6 M             | B     |
| C2-Naphthalenes                | 4.02      | 11.7 M             | B     |
| C3-Naphthalenes                | 5.44      | 5.99 M             | B     |
| C4-Naphthalenes                | 6.15      | 3.74 M             | B     |
| Biphenyl                       | 4.02      | 1.71               |       |
| Acenaphthylene                 | 4.59      | <1.44              | U     |
| Acenaphthene                   | 4.88      | <1.44              | U     |
| C1-Biphenyl                    | 4.82      | 4.74 M             | B     |
| C2-Biphenyl                    | 5.78      | 1.13 M             |       |
| C1-Acenaphthenes               | 5.56      | <1.44              | U     |
| Fluorene                       | 5.78      | 3.45               |       |
| 2-Methylfluorene               | 7.06      | 4.64 M             |       |
| 1,7-Dimethylfluorene           | 8.12      | <1.44              | U     |
| Phenanthrene                   | 7.92      | 12.0               | B     |
| 3-Methylphenanthrene           | 9.26      | 2.48 M             |       |
| 2-Methylphenanthrene           | 9.34      | 3.22 M             |       |
| 9/4-Methylphenanthrene         | 9.45      | <1.44              | U     |
| 1-Methylphenanthrene           | 9.57      | 1.47 M             |       |
| 2-Methylanthracene             | 9.64      | <1.44              | U     |
| 1,7-Dimethylphenanthrene       | 10.61     | <1.44              | U     |
| 1,8-Dimethylphenanthrene       | 10.72     | <1.44              | U     |
| 2,6-Dimethylphenanthrene       | 10.95     | 2.25 M             |       |
| 3,6-Dimethylphenanthrene       | 11.10     | 3.12 M             |       |
| Retene                         | 13.15     | 4.99               |       |
| 1,2,6-Trimethylphenanthrene    | 13.35     | <1.44              | U     |
| Dibenzothiophene               | 7.62      | <1.44              | U     |
| 2/3-Methylbenzothiophene       | 9.02      | <1.44              | U     |
| 4,6-Dimethyldibenzothiophene   | 9.80      | <1.44              | U     |
| C1-Phenanthrenes/Anthracenes   | 9.34      | 9.34 M             | B     |
| C2-Phenanthrenes/Anthracenes   | 11.10     | 2.61 M             |       |
| C3-Phenanthrenes/Anthracenes   | 12.40     | <1.44              | U     |
| C4-Phenanthrenes/Anthracenes   | 13.15     | 1.66               |       |
| C1-Fluorenes                   | 7.06      | 2.62 M             |       |
| C2-Fluorenes                   | 8.00      | <1.44              | U     |



# ALS Life Sciences

## Sample Analysis Report

|                                                                          |                          |                 |           |
|--------------------------------------------------------------------------|--------------------------|-----------------|-----------|
| <b>Sample Name</b>                                                       | <b>PLOT 402 - 6 JARS</b> | Sampling Date   | 25-May-24 |
| ALS Sample ID                                                            | L2756078-10              | Extraction Date | 26-Jul-24 |
| Analysis Method                                                          | PAH by GCMS              |                 |           |
| Analysis Type                                                            | sample                   |                 |           |
| Sample Matrix                                                            | Tissue                   |                 |           |
| Sample Size                                                              | 2.78 g                   |                 |           |
| Percent Moisture                                                         | 72.7%                    |                 |           |
| Split Ratio                                                              | 2                        | Workgroup       | WG3789954 |
| <div>Approved:<br/>Andrew Reid<br/>--e-signature--<br/>08-Aug-2024</div> |                          |                 |           |

|                                       |        |       |   |
|---------------------------------------|--------|-------|---|
| C3-Fluorenes                          | 10.95  | <1.44 | U |
| C1-Dibenzothiophenes                  | 8.78   | 1.52  | M |
| C2-Dibenzothiophenes                  | 9.98   | <1.44 | U |
| C3-Dibenzothiophenes                  | 11.07  | 2.09  | M |
| C4-Dibenzothiophenes                  | 12.98  | <1.44 | U |
| Anthracene                            | 8.04   | <1.44 | U |
| Fluoranthene                          | 11.28  | 3.89  | B |
| 1-Methylfluoranthene                  | 13.09  | <1.44 | U |
| 3-Methylfluoranthene/Benzo(a)fluorene | 13.31  | <1.44 | U |
| Pyrene                                | 11.91  | 2.51  |   |
| C1-Fluoranthenes/Pyrenes              | 13.37  | <1.44 | U |
| C2-Fluoranthenes/Pyrenes              | NotFnd | <1.44 | U |
| C3-Fluoranthenes/Pyrenes              | NotFnd | <1.44 | U |
| C4-Fluoranthenes/Pyrenes              | NotFnd | <1.44 | U |
| Benzo(a)anthracene                    | 15.80  | <1.44 | U |
| 7,12-Dimethylbenz(a)anthracene        | NotFnd | <1.44 | U |
| C1-Benz(a)anthracenes/Chrysenes       | NotFnd | <1.44 | U |
| C2-Benz(a)anthracenes/Chrysenes       | NotFnd | <1.44 | U |
| C3-Benz(a)anthracenes/Chrysenes       | NotFnd | <1.44 | U |
| C4-Benz(a)anthracenes/Chrysenes       | NotFnd | <1.44 | U |
| Chrysene/Triphenylene                 | 15.91  | 2.50  |   |
| 1-Methylchrysene                      | NotFnd | <1.44 | U |
| 5/6-Methylchrysene                    | NotFnd | <1.44 | U |
| 3,11/5,9-Dimethylchrysene             | NotFnd | <1.44 | U |
| Benzo(b)fluoranthene                  | 19.14  | <1.44 | U |
| Benzo(k)fluoranthene                  | 19.21  | <1.44 | U |
| Benzo(e)Pyrene                        | 19.88  | <1.44 | U |
| C1-Benzofluoranthenes/BAPs            | NotFnd | <1.44 | U |
| C2-Benzofluoranthenes/BAPs            | NotFnd | <1.44 | U |
| Benzo(a)pyrene                        | 20.01  | <1.44 | U |
| 7-Methylbenzo(a)pyrene                | NotFnd | <1.44 | U |
| Perylene                              | NotFnd | <1.44 | U |
| Indeno(1,2,3-cd)pyrene                | 23.46  | <1.44 | U |
| Dibenz(ah)anthracene                  | 23.65  | <1.44 | U |
| Benzo(ghi)perylene                    | 24.36  | <1.44 | U |

| Extraction Standards           |     |       | % Rec | Limits |
|--------------------------------|-----|-------|-------|--------|
| d8-Naphthalene(ES)             | 200 | 2.91  | 52.2  | 5-150  |
| d10-2-Methylnaphthalene(ES)    | 200 | 3.48  | 68.1  | 5-150  |
| d8-Acenaphthylene(ES)          | 200 | 4.58  | 83.7  | 5-150  |
| d10-Phenanthrene(ES)           | 200 | 7.87  | 59.6  | 5-150  |
| d10-Anthracene(ES)             | 200 | 7.99  | 53.6  | 5-150  |
| d10-Fluoranthene(ES)           | 200 | 11.22 | 57.6  | 5-150  |
| d12-Benzo(a)anthracene(ES)     | 200 | 15.74 | 63.0  | 5-150  |
| d12-Chrysene(ES)               | 200 | 15.85 | 67.6  | 5-150  |
| d12-Benzo(b)fluoranthene(ES)   | 200 | 19.07 | 50.6  | 5-150  |
| d12-Benzo(k)fluoranthene(ES)   | 200 | 19.15 | 60.3  | 5-150  |
| d12-Benzo(a)pyrene(ES)         | 200 | 19.95 | 58.4  | 5-150  |
| d12-Perylene(ES)               | 200 | 20.18 | 62.4  | 5-150  |
| d12-Indeno(1,2,3-cd)pyrene(ES) | 200 | 23.38 | 58.8  | 5-150  |
| d14-Dibenz(ah)anthracene(ES)   | 200 | 23.55 | 46.6  | 5-150  |
| d12-Benzo(ghi)perylene(ES)     | 200 | 24.27 | 34.6  | 5-150  |

M Indicates that a peak has been manually integrated.  
 U Indicates that this compound was not detected above the MDL.  
 B Indicates that this compound was detected in the method blank at greater than 10% of the sample value.

| ALS Life Sciences                                                        |           |                           |       |                 |           |                 |  |                |  |
|--------------------------------------------------------------------------|-----------|---------------------------|-------|-----------------|-----------|-----------------|--|----------------|--|
| Laboratory Control Sample Analysis Report                                |           |                           |       |                 |           |                 |  |                |  |
| Sample Name                                                              |           | Laboratory Control Sample |       | Sampling Date   | 25-May-24 |                 |  |                |  |
| ALS Sample ID                                                            |           | WG3789954-2               |       | Extraction Date | 26-Jul-24 |                 |  |                |  |
| Analysis Method                                                          |           | PAH by GCMS               |       |                 |           |                 |  |                |  |
| Analysis Type                                                            |           | LCS                       |       |                 |           |                 |  |                |  |
| Sample Matrix                                                            |           | Tissue                    |       |                 |           |                 |  |                |  |
| Sample Size                                                              |           | 1                         | n/a   |                 |           |                 |  |                |  |
| Percent Moisture                                                         |           | n/a                       |       |                 |           |                 |  |                |  |
| Split Ratio                                                              |           | 2                         |       | Workgroup       | WG3789954 |                 |  |                |  |
| <div>Approved:<br/>Andrew Reid<br/>--e-signature--<br/>08-Aug-2024</div> |           |                           |       |                 |           |                 |  |                |  |
|                                                                          |           |                           |       |                 |           | Run Information |  | Run 1          |  |
|                                                                          |           |                           |       |                 |           | Filename        |  | 24080612.D     |  |
|                                                                          |           |                           |       |                 |           | Run Date        |  | 8/6/2024 14:49 |  |
|                                                                          |           |                           |       |                 |           | Final Volume    |  | 1 mL           |  |
|                                                                          |           |                           |       |                 |           | Dilution Factor |  | 1              |  |
|                                                                          |           |                           |       |                 |           | Analysis Units  |  | ng/g           |  |
|                                                                          |           |                           |       |                 |           | Instrument      |  | MSD-5          |  |
| Column                                                                   |           | HP5MS UST530312H          |       |                 |           |                 |  |                |  |
|                                                                          |           |                           |       |                 |           |                 |  |                |  |
| Target Analytes                                                          | ng spiked | Ret. Time                 | % Rec | Flags           | Limits    |                 |  |                |  |
| Naphthalene                                                              | 200       | 2.91                      | 99    |                 | 50-150    |                 |  |                |  |
| Quinoline                                                                |           |                           |       |                 |           |                 |  |                |  |
| 2-Methylnaphthalene                                                      | 200       | 3.49                      | 84    |                 | 50-150    |                 |  |                |  |
| 1-Methylnaphthalene                                                      | 200       | 3.60                      | 84    |                 | 50-150    |                 |  |                |  |
| 1,2-Dimethylnaphthalene                                                  |           |                           |       |                 |           |                 |  |                |  |
| 2,6-Dimethylnaphthalene                                                  | 200       | 4.21                      | 85    |                 | 50-150    |                 |  |                |  |
| 2,3,5-Trimethylnaphthalene                                               | 200       | 5.56                      | 85    |                 | 50-150    |                 |  |                |  |
| 2,3,6-Trimethylnaphthalene                                               |           |                           |       |                 |           |                 |  |                |  |
| 1,4,6,7-Tetramethylnaphthalene                                           |           |                           |       |                 |           |                 |  |                |  |
| C1-Naphthalenes                                                          |           |                           |       |                 |           |                 |  |                |  |
| C2-Naphthalenes                                                          |           |                           |       |                 |           |                 |  |                |  |
| C3-Naphthalenes                                                          |           |                           |       |                 |           |                 |  |                |  |
| C4-Naphthalenes                                                          |           |                           |       |                 |           |                 |  |                |  |
| Biphenyl                                                                 | 200       | 4.01                      | 81    |                 | 50-150    |                 |  |                |  |
| Acenaphthylene                                                           | 200       | 4.59                      | 76    |                 | 50-150    |                 |  |                |  |
| Acenaphthene                                                             | 200       | 4.88                      | 72    |                 | 50-150    |                 |  |                |  |
| C1-Biphenyl                                                              |           |                           |       |                 |           |                 |  |                |  |
| C2-Biphenyl                                                              |           |                           |       |                 |           |                 |  |                |  |
| C1-Acenaphthenes                                                         |           |                           |       |                 |           |                 |  |                |  |
| Fluorene                                                                 | 200       | 5.78                      | 88    |                 | 50-150    |                 |  |                |  |
| 2-Methylfluorene                                                         |           |                           |       |                 |           |                 |  |                |  |
| 1,7-Dimethylfluorene                                                     |           |                           |       |                 |           |                 |  |                |  |
| Phenanthrene                                                             | 200       | 7.92                      | 86    |                 | 50-150    |                 |  |                |  |
| 3-Methylphenanthrene                                                     |           |                           |       |                 |           |                 |  |                |  |
| 2-Methylphenanthrene                                                     |           |                           |       |                 |           |                 |  |                |  |
| 9/4-Methylphenanthrene                                                   |           |                           |       |                 |           |                 |  |                |  |
| 1-Methylphenanthrene                                                     | 200       | 9.63                      | 89    |                 | 50-150    |                 |  |                |  |
| 2-Methylanthracene                                                       |           |                           |       |                 |           |                 |  |                |  |
| 1,7-Dimethylphenanthrene                                                 |           |                           |       |                 |           |                 |  |                |  |
| 1,8-Dimethylphenanthrene                                                 |           |                           |       |                 |           |                 |  |                |  |
| 2,6-Dimethylphenanthrene                                                 |           |                           |       |                 |           |                 |  |                |  |
| 3,6-Dimethylphenanthrene                                                 |           |                           |       |                 |           |                 |  |                |  |
| Retene                                                                   |           |                           |       |                 |           |                 |  |                |  |
| 1,2,6-Trimethylphenanthrene                                              |           |                           |       |                 |           |                 |  |                |  |
| Dibenzothiophene                                                         | 200       | 7.62                      | 70    |                 | 50-150    |                 |  |                |  |
| 2/3-Methylbenzothiophene                                                 |           |                           |       |                 |           |                 |  |                |  |
| 4,6-Dimethyldibenzothiophene                                             |           |                           |       |                 |           |                 |  |                |  |
| C1-Phenanthrenes/Anthracenes                                             |           |                           |       |                 |           |                 |  |                |  |
| C2-Phenanthrenes/Anthracenes                                             |           |                           |       |                 |           |                 |  |                |  |
| C3-Phenanthrenes/Anthracenes                                             |           |                           |       |                 |           |                 |  |                |  |
| C4-Phenanthrenes/Anthracenes                                             |           |                           |       |                 |           |                 |  |                |  |
| C1-Fluorenes                                                             |           |                           |       |                 |           |                 |  |                |  |
| C2-Fluorenes                                                             |           |                           |       |                 |           |                 |  |                |  |

# ALS Life Sciences

## Laboratory Control Sample Analysis Report

|                  |                           |     |  |                 |                                                            |
|------------------|---------------------------|-----|--|-----------------|------------------------------------------------------------|
| Sample Name      | Laboratory Control Sample |     |  | Sampling Date   | 25-May-24                                                  |
| ALS Sample ID    | WG3789954-2               |     |  | Extraction Date | 26-Jul-24                                                  |
| Analysis Method  | PAH by GCMS               |     |  |                 |                                                            |
| Analysis Type    | LCS                       |     |  |                 |                                                            |
| Sample Matrix    | Tissue                    |     |  |                 |                                                            |
| Sample Size      | 1                         | n/a |  |                 |                                                            |
| Percent Moisture | n/a                       |     |  |                 |                                                            |
| Split Ratio      | 2                         |     |  | Workgroup       | WG3789954                                                  |
|                  |                           |     |  |                 | Approved:<br>Andrew Reid<br>--e-signature--<br>08-Aug-2024 |

|                                       |     |       |    |        |
|---------------------------------------|-----|-------|----|--------|
| C3-Fluorenes                          |     |       |    |        |
| C1-Dibenzothiophenes                  |     |       |    |        |
| C2-Dibenzothiophenes                  |     |       |    |        |
| C3-Dibenzothiophenes                  |     |       |    |        |
| C4-Dibenzothiophenes                  |     |       |    |        |
| Anthracene                            | 200 | 8.04  | 78 | 50-150 |
| Fluoranthene                          | 200 | 11.28 | 80 | 50-150 |
| 1-Methylfluoranthene                  |     |       |    |        |
| 3-Methylfluoranthene/Benzo(a)fluorene |     |       |    |        |
| Pyrene                                | 200 | 11.91 | 76 | 50-150 |
| C1-Fluoranthenes/Pyrenes              |     |       |    |        |
| C2-Fluoranthenes/Pyrenes              |     |       |    |        |
| C3-Fluoranthenes/Pyrenes              |     |       |    |        |
| C4-Fluoranthenes/Pyrenes              |     |       |    |        |
| Benzo(a)anthracene                    | 200 | 15.80 | 79 | 50-150 |
| 7,12-Dimethylbenz(a)anthracene        |     |       |    |        |
| C1-Benz(a)anthracenes/Chrysenes       |     |       |    |        |
| C2-Benz(a)anthracenes/Chrysenes       |     |       |    |        |
| C3-Benz(a)anthracenes/Chrysenes       |     |       |    |        |
| C4-Benz(a)anthracenes/Chrysenes       |     |       |    |        |
| Chrysene/Triphenylene                 | 200 | 15.93 | 84 | 50-150 |
| 1-Methylchrysene                      |     |       |    |        |
| 5/6-Methylchrysene                    |     |       |    |        |
| 3,11/5,9-Dimethylchrysene             |     |       |    |        |
| Benzo(b)fluoranthene                  | 200 | 19.13 | 78 | 50-150 |
| Benzo(k)fluoranthene                  | 200 | 19.21 | 81 | 50-150 |
| Benzo(e)Pyrene                        | 200 | 19.88 | 91 | 50-150 |
| C1-Benzofluoranthenes/BAPs            |     |       |    |        |
| C2-Benzofluoranthenes/BAPs            |     |       |    |        |
| Benzo(a)pyrene                        | 200 | 20.01 | 79 | 50-150 |
| 7-Methylbenzo(a)pyrene                |     |       |    |        |
| Perylene                              | 200 | 20.25 | 64 | 50-150 |
| Indeno(1,2,3-cd)pyrene                | 200 | 23.46 | 75 | 50-150 |
| Dibenz(ah)anthracene                  | 200 | 23.66 | 79 | 50-150 |
| Benzo(ghi)perylene                    | 200 | 24.37 | 83 | 50-150 |

| Extraction Standards           |     |       | % Rec | Limits |
|--------------------------------|-----|-------|-------|--------|
| d8-Naphthalene(ES)             | 200 | 2.90  | 69.7  | 10-150 |
| d10-2-Methylnaphthalene(ES)    | 200 | 3.46  | 80.2  | 10-150 |
| d8-Acenaphthylene(ES)          | 200 | 4.57  | 81.7  | 10-150 |
| d10-Phenanthrene(ES)           | 200 | 7.87  | 59.3  | 10-150 |
| d10-Anthracene(ES)             | 200 | 7.99  | 58.0  | 10-150 |
| d10-Fluoranthene(ES)           | 200 | 11.22 | 61.3  | 10-150 |
| d12-Benzo(a)anthracene(ES)     | 200 | 15.74 | 82.7  | 10-150 |
| d12-Chrysene(ES)               | 200 | 15.85 | 80.1  | 10-150 |
| d12-Benzo(b)fluoranthene(ES)   | 200 | 19.07 | 65.8  | 10-150 |
| d12-Benzo(k)fluoranthene(ES)   | 200 | 19.15 | 78.5  | 10-150 |
| d12-Benzo(a)pyrene(ES)         | 200 | 19.95 | 87.6  | 10-150 |
| d12-Perylene(ES)               | 200 | 20.19 | 72.2  | 10-150 |
| d12-Indeno(1,2,3-cd)pyrene(ES) | 200 | 23.39 | 80.3  | 10-150 |
| d14-Dibenz(ah)anthracene(ES)   | 200 | 23.55 | 60.4  | 10-150 |
| d12-Benzo(ghi)perylene(ES)     | 200 | 24.27 | 61.2  | 10-150 |

M Indicates that a peak has been manually integrated.



1435 Norjohn Court, Unit 1, Burlington ON, L7L 0E6  
Phone: 905-331-3111, FAX: 905-331-4567

## Certificate of Analysis

**ALS Project Contact:** Dana Brown  
**ALS Project ID:** 24593  
**ALS WO#:** L2756078  
**Date of Report:** 16-Aug-24  
**Date of Sample Receipt:** 5-Jun-24

**Client Name:** Wildland Management Consultants Ltd.  
**Client Address:** 50345 Range Road 222  
Leduc County, AB T0B 3M2  
Canada  
**Client Contact:** Lawrence Brusnyk  
**Client Project ID:** SHTC 11-086

**COMMENTS:** **Parent and Alkylated PAH by SIM GC/LRMS**

All results have been reported on an as-received (wet weight) basis.

The relative percent difference (RPD) between the duplicate and its parent sample was above the method control limit for 4 of 78 targets. All other targets replicate within limits where detected.

For the reagent-only method blank WG3789954-4, the more volatile components were not recovered. The corn-oil-containing blank and the samples have not been similarly impacted.

For the corn-oil-containing method blank WG3789954-1, there was a non-target peak in the time range of C2-Fluoranthenes/Pyrenes. This result has been reported as an estimated maximum possible concentration (EMPC). This target has not been detected in the samples.

Certified by:

A handwritten signature in black ink, appearing to read "Steve Kennedy", is written over a horizontal line.

Steve Kennedy  
Technical Supervisor

Results in this certificate relate only to the samples as submitted to the laboratory.

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| ALS Life Sciences                     |                            |        |                           |                 |     |             |     |                     |                     |
|---------------------------------------|----------------------------|--------|---------------------------|-----------------|-----|-------------|-----|---------------------|---------------------|
| Sample Analysis Summary Report        |                            |        |                           |                 |     |             |     |                     |                     |
| Sample Name                           | Method Blank<br>(Corn Oil) |        | Method Blank<br>(Reagent) | PLOT 4 - 6 JARS |     | Duplicate   |     | PLOT 11 - 4<br>JARS | PLOT 70 - 3<br>JARS |
| ALS Sample ID                         | WG3789954-1                |        | WG3789954-4               | L2756078-1      |     | WG3789954-5 |     | L2756078-2          | L2756078-3          |
| Sample Size                           | 10.50                      |        | 10.50                     | 10.18           |     | 10.05       |     | 10.02               | 10.18               |
| Sample units                          | g(wwt)                     |        | g(wwt)                    | g(wwt)          |     | g(wwt)      |     | g(wwt)              | g(wwt)              |
| Moisture Content                      | n/a                        |        | n/a                       | 72.0%           |     | 72.0%       |     | 70.9%               | 70.8%               |
| Matrix                                | QC                         |        | QC                        | Tissue          |     | QC          |     | Tissue              | Tissue              |
| Sampling Date                         | n/a                        |        | n/a                       | 25-May-24       |     | n/a         |     | 25-May-24           | 25-May-24           |
| Extraction Date                       | 26-Jul-24                  |        | 26-Jul-24                 | 26-Jul-24       |     | 26-Jul-24   |     | 26-Jul-24           | 26-Jul-24           |
| Target Analytes                       | ng/g(wwt)                  |        | ng/g(wwt)                 | ng/g(wwt)       |     | ng/g(wwt)   |     | ng/g(wwt)           | ng/g(wwt)           |
| Naphthalene                           | 0.99                       |        | NQ                        | 3.16            | B   | 3.06        | B   | 12.20               | 9.73 B              |
| Quinoline                             | <0.38                      | U      | NQ                        | 1.28            |     | 0.65        | M   | 1.78                | 2.36                |
| 2-Methylnaphthalene                   | 0.42                       |        | NQ                        | 2.37            | B   | 2.38        | B   | 7.53 B              | 6.44                |
| 1-Methylnaphthalene                   | <0.38                      | U      | NQ                        | 1.28            |     | 1.27        |     | 3.89                | 3.24                |
| 1,2-Dimethylnaphthalene               | <0.38                      | U      | NQ                        | 0.68            | M   | 0.68        | M   | 0.88 M              | 0.93 M              |
| 2,6-Dimethylnaphthalene               | 0.67                       | M      | NQ                        | 0.64            | B   | 0.61        | B   | 1.24 B              | 1.12 B              |
| 2,3,5-Trimethylnaphthalene            | <0.38                      | U      | NQ                        | 0.48            |     | 0.52        | M   | 0.77                | 0.81                |
| 2,3,6-Trimethylnaphthalene            | <0.38                      | U      | NQ                        | <0.39           | U   | <0.4        | U   | 0.44 M              | <0.39 U             |
| 1,4,6,7-Tetramethylnaphthalene        | <0.38                      | U      | NQ                        | <0.39           | U   | <0.4        | U   | 0.48 M              | 0.46 M              |
| C1-Naphthalenes                       | 0.59                       | M      | NQ                        | 3.07            | M,B | 3.17        | M   | 9.52 M,B            | 8.19 M              |
| C2-Naphthalenes                       | 0.63                       | M      | NQ                        | 3.01            | M   | 3.10        | M,B | 6.10 M,B            | 5.47 M,B            |
| C3-Naphthalenes                       | 0.77                       | M      | NQ                        | 1.85            | M,B | 1.96        | M,B | 3.19 M,B            | 3.49 M,B            |
| C4-Naphthalenes                       | 0.90                       | M      | NQ                        | 1.32            | M,B | 2.08        | M,B | 2.88 M,B            | 2.99 M,B            |
| Biphenyl                              | <0.38                      | U      | NQ                        | 0.47            |     | 0.43        |     | 0.52                | 0.58                |
| Acenaphthylene                        | <0.38                      | U      | NQ                        | <0.39           | U   | <0.4        | U   | <0.4 U              | <0.39 U             |
| Acenaphthene                          | <0.38                      | U      | NQ                        | <0.39           | U   | <0.4        | U   | <0.4 U              | <0.39 U             |
| C1-Biphenyl                           | 0.60                       | M      | NQ                        | 1.61            | M,B | 1.44        | M,B | 1.96 M,B            | 2.05 M,B            |
| C2-Biphenyl                           | <0.38                      | U      | NQ                        | <0.39           | U   | <0.4        | U   | 0.56 M              | <0.39 U             |
| C1-Acenaphthenes                      | <0.38                      | U      | NQ                        | <0.39           | U   | <0.4        | U   | 0.43                | 0.46                |
| Fluorene                              | <0.38                      | U      | <0.38 U                   | 0.90            |     | 0.80        |     | 1.17                | 1.07                |
| 2-Methylfluorene                      | <0.38                      | U      | <0.38 U                   | <0.39           | U   | <0.4        | U   | <0.4 U              | 1.29 M              |
| 1,7-Dimethylfluorene                  | <0.38                      | U      | <0.38 U                   | <0.39           | U   | <0.4        | U   | <0.4 U              | <0.39 U             |
| Phenanthrene                          | <0.38                      | U      | 1.28                      | 4.31            | B   | 3.52        | B   | 4.19 B              | 4.70 B              |
| 3-Methylphenanthrene                  | <0.38                      | U      | <0.38 U                   | 0.75            | M   | 0.61        | M   | 0.65                | 0.82 M              |
| 2-Methylphenanthrene                  | <0.38                      | U      | <0.38 U                   | 1.10            | M   | 0.83        | M   | 0.85 M              | 1.03 M              |
| 9/4-Methylphenanthrene                | <0.38                      | U      | <0.38 U                   | <0.39           | U   | <0.4        | U   | <0.4 U              | <0.39 U             |
| 1-Methylphenanthrene                  | <0.38                      | U      | <0.38 U                   | 0.41            | M   | <0.4        | U   | <0.4 U              | 0.45 M              |
| 2-Methylanthracene                    | <0.38                      | U      | <0.38 U                   | <0.39           | U   | <0.4        | U   | <0.4 U              | <0.39 U             |
| 1,7-Dimethylphenanthrene              | <0.38                      | U      | <0.38 U                   | <0.39           | U   | <0.4        | U   | 0.43 M              | <0.39 U             |
| 1,8-Dimethylphenanthrene              | <0.38                      | U      | <0.38 U                   | <0.39           | U   | <0.4        | U   | <0.4 U              | <0.39 U             |
| 2,6-Dimethylphenanthrene              | <0.38                      | U      | <0.38 U                   | 1.12            | M   | 0.65        | M   | 0.62 M              | 0.90 M              |
| 3,6-Dimethylphenanthrene              | <0.38                      | U      | <0.38 U                   | 1.54            | M   | 1.28        | M   | 0.89 M              | 0.69 M              |
| Retene                                | <0.38                      | U      | <0.38 U                   | 2.50            |     | 2.06        |     | 1.43                | 1.10                |
| 1,2,6-Trimethylphenanthrene           | <0.38                      | U      | <0.38 U                   | <0.39           | U   | <0.4        | U   | <0.4 U              | <0.39 U             |
| Dibenzothiophene                      | <0.38                      | U      | <0.38 U                   | <0.39           | U   | <0.4        | U   | <0.4 U              | <0.39 U             |
| 2/3-Methylbenzothiophene              | <0.38                      | U      | <0.38 U                   | <0.39           | U   | <0.4        | U   | <0.4 U              | <0.39 U             |
| 4,6-Dimethyldibenzothiophene          | <0.38                      | U      | <0.38 U                   | 7.93            |     | 2.43        |     | 8.60                | 9.51                |
| C1-Phenanthrenes/Anthracenes          | 0.63                       | M      | 0.69 M                    | 2.97            | M,B | 2.18        | M,B | 2.14 M,B            | 2.53 M,B            |
| C2-Phenanthrenes/Anthracenes          | <0.38                      | U      | <0.38 U                   | 1.40            | M   | 1.29        | M   | 0.94 M              | 0.96 M              |
| C3-Phenanthrenes/Anthracenes          | <0.38                      | U      | <0.38 U                   | 0.49            | M   | 0.44        | M   | 0.41 M              | <0.39 U             |
| C4-Phenanthrenes/Anthracenes          | <0.38                      | U      | <0.38 U                   | 0.99            | M   | 0.84        | M   | 0.60 M              | 0.50 M              |
| C1-Fluorenes                          | <0.38                      | U      | <0.38 U                   | 0.95            | M   | 0.63        | M   | 0.86 M              | 0.96 M              |
| C2-Fluorenes                          | <0.38                      | U      | <0.38 U                   | <0.39           | U   | <0.4        | U   | <0.4 U              | <0.39 U             |
| C3-Fluorenes                          | <0.38                      | U      | <0.38 U                   | <0.39           | U   | <0.4        | U   | <0.4 U              | <0.39 U             |
| C1-Dibenzothiophenes                  | <0.38                      | U      | <0.38 U                   | 0.52            | M   | 0.51        | M   | 0.66 M              | 0.67 M              |
| C2-Dibenzothiophenes                  | <0.38                      | U      | <0.38 U                   | 9.39            | M   | 3.29        | M   | 8.80 M              | 11.10 M             |
| C3-Dibenzothiophenes                  | <0.38                      | U      | <0.38 U                   | 0.75            | M   | 0.66        | M   | <0.4 U              | 0.56 M              |
| C4-Dibenzothiophenes                  | <0.38                      | U      | <0.38 U                   | <0.39           | U   | <0.4        | U   | <0.4 U              | <0.39 U             |
| Anthracene                            | <0.38                      | U      | <0.38 U                   | <0.39           | U   | <0.4        | U   | <0.4 U              | <0.39 U             |
| Fluoranthene                          | <0.38                      | U      | 0.42                      | 1.76            | B   | 1.21        | B   | 1.01 B              | 1.28 B              |
| 1-Methylfluoranthene                  | <0.38                      | U      | <0.38 U                   | <0.39           | U   | <0.4        | U   | <0.4 U              | <0.39 U             |
| 3-Methylfluoranthene/Benzo(a)fluorene | <0.38                      | U      | <0.38 U                   | <0.39           | U   | <0.4        | U   | <0.4 U              | <0.39 U             |
| Pyrene                                | <0.38                      | U      | <0.38 U                   | 0.88            |     | 0.64        |     | 0.56                | 0.73                |
| C1-Fluoranthenes/Pyrenes              | <0.38                      | U      | <0.38 U                   | 0.61            | M   | 0.52        | M   | <0.4 U              | <0.39 U             |
| C2-Fluoranthenes/Pyrenes              | 0.56                       | M,EMPC | <0.38 U                   | <0.39           | U   | <0.4        | U   | <0.4 U              | <0.39 U             |
| C3-Fluoranthenes/Pyrenes              | <0.38                      | U      | <0.38 U                   | <0.39           | U   | <0.4        | U   | <0.4 U              | <0.39 U             |
| C4-Fluoranthenes/Pyrenes              | <0.38                      | U      | <0.38 U                   | <0.39           | U   | <0.4        | U   | <0.4 U              | <0.39 U             |



| ALS Life Sciences               |                                                                                                                        |   |                           |   |                 |   |             |   |                     |   |                     |   |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------|---|---------------------------|---|-----------------|---|-------------|---|---------------------|---|---------------------|---|
| Sample Analysis Summary Report  |                                                                                                                        |   |                           |   |                 |   |             |   |                     |   |                     |   |
| Sample Name                     | Method Blank<br>(Corn Oil)                                                                                             |   | Method Blank<br>(Reagent) |   | PLOT 4 - 6 JARS |   | Duplicate   |   | PLOT 11 - 4<br>JARS |   | PLOT 70 - 3<br>JARS |   |
| ALS Sample ID                   | WG3789954-1                                                                                                            |   | WG3789954-4               |   | L2756078-1      |   | WG3789954-5 |   | L2756078-2          |   | L2756078-3          |   |
| Benzo(a)anthracene              | <0.38                                                                                                                  | U | <0.38                     | U | <0.39           | U | <0.4        | U | <0.4                | U | <0.39               | U |
| 7,12-Dimethylbenz(a)anthracene  | <0.38                                                                                                                  | U | <0.38                     | U | <0.39           | U | <0.4        | U | <0.4                | U | <0.39               | U |
| C1-Benz(a)anthracenes/Chrysenes | <0.38                                                                                                                  | U | <0.38                     | U | <0.39           | U | <0.4        | U | <0.4                | U | <0.39               | U |
| C2-Benz(a)anthracenes/Chrysenes | <0.38                                                                                                                  | U | <0.38                     | U | <0.39           | U | <0.4        | U | <0.4                | U | <0.39               | U |
| C3-Benz(a)anthracenes/Chrysenes | <0.38                                                                                                                  | U | <0.38                     | U | <0.39           | U | <0.4        | U | <0.4                | U | <0.39               | U |
| C4-Benz(a)anthracenes/Chrysenes | <0.38                                                                                                                  | U | <0.38                     | U | <0.39           | U | <0.4        | U | <0.4                | U | <0.39               | U |
| Chrysene/Triphenylene           | <0.38                                                                                                                  | U | <0.38                     | U | 1.47            |   | 1.27        |   | 0.99                |   | 0.89                |   |
| 1-Methylchrysene                | <0.38                                                                                                                  | U | <0.38                     | U | <0.39           | U | <0.4        | U | <0.4                | U | <0.39               | U |
| 5/6-Methylchrysene              | <0.38                                                                                                                  | U | <0.38                     | U | <0.39           | U | <0.4        | U | <0.4                | U | <0.39               | U |
| 3,11/5,9-Dimethylchrysene       | <0.38                                                                                                                  | U | <0.38                     | U | <0.39           | U | <0.4        | U | <0.4                | U | <0.39               | U |
| Benzo(b)flouranthene            | <0.38                                                                                                                  | U | <0.38                     | U | 0.62            |   | 0.52        | M | 0.46                |   | 0.53                |   |
| Benzo(k)fluoranthene            | <0.38                                                                                                                  | U | <0.38                     | U | 0.80            |   | 0.63        | M | 1.17                |   | 0.97                | M |
| Benzo(e)Pyrene                  | <0.38                                                                                                                  | U | <0.38                     | U | <0.39           | U | <0.4        | U | <0.4                | U | <0.39               | U |
| C1-Benzofluoranthenes/BAPs      | <0.38                                                                                                                  | U | <0.38                     | U | <0.39           | U | <0.4        | U | <0.4                | U | <0.39               | U |
| C2-Benzofluoranthenes/BAPs      | <0.38                                                                                                                  | U | <0.38                     | U | <0.39           | U | <0.4        | U | <0.4                | U | <0.39               | U |
| Benzo(a)pyrene                  | <0.38                                                                                                                  | U | <0.38                     | U | <0.39           | U | <0.4        | U | <0.4                | U | <0.39               | U |
| 7-Methylbenzo(a)pyrene          | <0.38                                                                                                                  | U | <0.38                     | U | <0.39           | U | <0.4        | U | <0.4                | U | <0.39               | U |
| Perylene                        | <0.38                                                                                                                  | U | <0.38                     | U | <0.39           | U | <0.4        | U | <0.4                | U | <0.39               | U |
| Indeno(1,2,3-cd)pyrene          | <0.38                                                                                                                  | U | <0.38                     | U | <0.39           | U | <0.4        | U | <0.4                | U | <0.39               | U |
| Dibenz(ah)anthracene            | <0.38                                                                                                                  | U | <0.38                     | U | <0.39           | U | <0.4        | U | <0.4                | U | <0.39               | U |
| Benzo(ghi)perylene              | <0.38                                                                                                                  | U | <0.38                     | U | <0.39           | U | <0.4        | U | <0.4                | U | <0.39               | U |
| Extraction Standards            | % Rec                                                                                                                  |   | % Rec                     |   | % Rec           |   | % Rec       |   | % Rec               |   | % Rec               |   |
| d8-Naphthalene(ES)              | 72.8                                                                                                                   |   | 1.7                       |   | 69.4            |   | 60.3        |   | 51.3                |   | 41.6                |   |
| d10-2-Methylnaphthalene(ES)     | 82.6                                                                                                                   |   | 5.6                       |   | 82.3            |   | 75.6        |   | 67.5                |   | 53.6                |   |
| d8-Acenapthylene(ES)            | 86.1                                                                                                                   |   | 9.6                       |   | 88.6            |   | 84.2        |   | 78.0                |   | 64.7                |   |
| d10-Phenanthrene(ES)            | 65.6                                                                                                                   |   | 48.6                      |   | 67.1            |   | 63.5        |   | 63.7                |   | 57.5                |   |
| d10-Anthracene(ES)              | 65.1                                                                                                                   |   | 47.4                      |   | 60.7            |   | 59.1        |   | 58.1                |   | 50.3                |   |
| d10-Fluoranthene(ES)            | 61.6                                                                                                                   |   | 62.1                      |   | 71.2            |   | 61.7        |   | 67.6                |   | 63.1                |   |
| d12-Benzo(a)anthracene(ES)      | 73.7                                                                                                                   |   | 63.8                      |   | 69.6            |   | 71.2        |   | 67.5                |   | 66.5                |   |
| d12-Chrysene(ES)                | 73.9                                                                                                                   |   | 73.4                      |   | 73.7            |   | 77.4        |   | 73.6                |   | 70.6                |   |
| d12-Benzo(b)fluoranthene(ES)    | 65.2                                                                                                                   |   | 50.1                      |   | 60.3            |   | 63.3        |   | 60.3                |   | 52.5                |   |
| d12-Benzo(k)fluoranthene(ES)    | 73.1                                                                                                                   |   | 57.4                      |   | 68.1            |   | 71.5        |   | 68.0                |   | 61.5                |   |
| d12-Benzo(a)pyrene(ES)          | 78.4                                                                                                                   |   | 52.4                      |   | 71.3            |   | 69.6        |   | 72.6                |   | 70.9                |   |
| d12-Perylene(ES)                | 71.6                                                                                                                   |   | 61.9                      |   | 63.3            |   | 64.5        |   | 62.0                |   | 61.6                |   |
| d12-Indeno(1,2,3-cd)pyrene(ES)  | 69.8                                                                                                                   |   | 58.2                      |   | 65.4            |   | 55.4        |   | 64.2                |   | 62.9                |   |
| d14-Dibenz(ah)anthracene(ES)    | 54.7                                                                                                                   |   | 44.3                      |   | 52.0            |   | 43.0        |   | 51.0                |   | 48.4                |   |
| U                               | Indicates that this compound was not detected above the LOD.                                                           |   |                           |   |                 |   |             |   |                     |   |                     |   |
| M                               | Indicates that a peak has been manually integrated.                                                                    |   |                           |   |                 |   |             |   |                     |   |                     |   |
| B                               | Indicates that this compound was detected in the method blank at greater than 10% of the sample value.                 |   |                           |   |                 |   |             |   |                     |   |                     |   |
| EMPC                            | This result is an Estimated Maximum Possible Concentration (EMPC) due to interference or positive id criterion failure |   |                           |   |                 |   |             |   |                     |   |                     |   |
| NQ                              | Indicates that this compound was not quantitable.                                                                      |   |                           |   |                 |   |             |   |                     |   |                     |   |

| ALS Life Sciences                     |                     |                      |                      |                      |                     |                      |
|---------------------------------------|---------------------|----------------------|----------------------|----------------------|---------------------|----------------------|
| Sample Analysis Summary Report        |                     |                      |                      |                      |                     |                      |
| Sample Name                           | PLOT 71 - 5<br>JARS | PLOT 109 - 5<br>JARS | PLOT 110 - 4<br>JARS | PLOT 114 - 4<br>JARS | PLOT 117 - 1<br>JAR | PLOT 123 - 3<br>JARS |
| ALS Sample ID                         | L2756078-4          | L2756078-5           | L2756078-6           | L2756078-7           | L2756078-8          | L2756078-9           |
| Sample Size                           | 10.06               | 10.31                | 10.22                | 10.13                | 1.08                | 10.03                |
| Sample units                          | g(wwt)              | g(wwt)               | g(wwt)               | g(wwt)               | g(wwt)              | g(wwt)               |
| Moisture Content                      | 72.6%               | 71.9%                | 71.5%                | 71.5%                | 70.0%               | 72.1%                |
| Matrix                                | Tissue              | Tissue               | Tissue               | Tissue               | Tissue              | Tissue               |
| Sampling Date                         | 25-May-24           | 25-May-24            | 25-May-24            | 25-May-24            | 25-May-24           | 25-May-24            |
| Extraction Date                       | 26-Jul-24           | 26-Jul-24            | 26-Jul-24            | 26-Jul-24            | 26-Jul-24           | 26-Jul-24            |
| Target Analytes                       | ng/g(wwt)           | ng/g(wwt)            | ng/g(wwt)            | ng/g(wwt)            | ng/g(wwt)           | ng/g(wwt)            |
| Naphthalene                           | 17.5 B              | 6.07 B               | 4.17 B               | 17.9 B               | 25.3                | 13.6 B               |
| Quinoline                             | <0.4 U              | 3.11                 | 1.54                 | 1.33                 | 4.52 M              | 3.46                 |
| 2-Methylnaphthalene                   | 11.70 B             | 4.92 B               | 3.12 B               | 9.30                 | 11.70               | 7.87                 |
| 1-Methylnaphthalene                   | 6.01                | 2.54                 | 1.61                 | 4.54                 | 5.48                | 3.75                 |
| 1,2-Dimethylnaphthalene               | 0.96 M              | 0.86 M               | 0.66 M               | 0.91                 | <3.7 U              | 1.43                 |
| 2,6-Dimethylnaphthalene               | 1.40 B              | 0.96 B               | 0.66 B               | 1.31 B               | <3.7 U              | 1.63 B               |
| 2,3,5-Trimethylnaphthalene            | 0.83                | 0.74                 | 0.46                 | 0.84                 | <3.7 U              | 0.87                 |
| 2,3,6-Trimethylnaphthalene            | <0.4 U              | <0.39 U              | <0.39 U              | <0.39 U              | <3.7 U              | 0.42 M               |
| 1,4,6,7-Tetramethylnaphthalene        | <0.4 U              | 0.62 M               | <0.39 U              | 0.87 M               | <3.7 U              | 0.76 M               |
| C1-Naphthalenes                       | 14.8 M              | 6.35 M               | 4.10 M               | 11.5 M,B             | 14.3 M              | 9.77 M               |
| C2-Naphthalenes                       | 7.62 M,B            | 4.23 M,B             | 3.12 M,B             | 5.67 M,B             | 12.9 M              | 7.13 M               |
| C3-Naphthalenes                       | 2.80 M,B            | 3.39 M,B             | 1.63 M,B             | 3.20 M,B             | 9.59 M              | 3.12 M,B             |
| C4-Naphthalenes                       | 2.35 M,B            | 2.89 M,B             | 1.78 M,B             | 2.24 M,B             | 6.80 M,B            | 2.78 M,B             |
| Biphenyl                              | 0.64                | 0.51                 | 0.45                 | 0.67                 | <3.7 U              | 0.89                 |
| Acenaphthylene                        | <0.4 U              | <0.39 U              | <0.39 U              | <0.39 U              | <3.7 U              | <0.4 U               |
| Acenaphthene                          | <0.4 U              | <0.39 U              | <0.39 U              | <0.39 U              | <3.7 U              | <0.4 U               |
| C1-Biphenyl                           | 1.88 M,B            | 1.67 M,B             | 1.23 M,B             | 1.75 M,B             | 7.91 M              | 1.93 M,B             |
| C2-Biphenyl                           | <0.4 U              | <0.39 U              | <0.39 U              | <0.39 U              | <3.7 U              | 0.64 M               |
| C1-Acenaphthenes                      | 0.46                | 0.42                 | <0.39 U              | 0.49                 | <3.7 U              | 0.46                 |
| Fluorene                              | 1.30                | 1.03                 | 0.77                 | 1.36                 | 4.09                | 1.05                 |
| 2-Methylfluorene                      | 1.49 M              | 1.12 M               | 0.90 M               | 1.41 M               | 5.56 M              | 1.21 M               |
| 1,7-Dimethylfluorene                  | <0.4 U              | <0.39 U              | <0.39 U              | <0.39 U              | <3.7 U              | <0.4 U               |
| Phenanthrene                          | 4.71 B              | 4.17 B               | 3.23 B               | 4.68 B               | 18.10               | 3.92 B               |
| 3-Methylphenanthrene                  | 0.81                | 0.70 M               | 0.58                 | 0.80                 | <3.7 U              | 0.86 M               |
| 2-Methylphenanthrene                  | 1.12 M              | 1.12 M               | 0.98 M               | 1.16 M               | 4.00 M              | 1.12 M               |
| 9/4-Methylphenanthrene                | <0.4 U              | <0.39 U              | <0.39 U              | <0.39 U              | <3.7 U              | <0.4 U               |
| 1-Methylphenanthrene                  | 0.57 M              | 0.39 M               | <0.39 U              | 0.47 M               | <3.7 U              | <0.4 U               |
| 2-Methylanthracene                    | <0.4 U              | <0.39 U              | <0.39 U              | <0.39 U              | <3.7 U              | <0.4 U               |
| 1,7-Dimethylphenanthrene              | <0.4 U              | <0.39 U              | <0.39 U              | <0.39 U              | <3.7 U              | <0.4 U               |
| 1,8-Dimethylphenanthrene              | <0.4 U              | <0.39 U              | <0.39 U              | <0.39 U              | <3.7 U              | <0.4 U               |
| 2,6-Dimethylphenanthrene              | 0.78 M              | 0.87 M               | 0.69 M               | 0.92 M               | <3.7 U              | 1.13 M               |
| 3,6-Dimethylphenanthrene              | 0.86 M              | 0.77 M               | 1.13 M               | 1.14 M               | <3.7 U              | 1.07 M               |
| Retene                                | 1.41                | 1.10                 | 1.56                 | 1.79                 | <3.7 U              | 2.14                 |
| 1,2,6-Trimethylphenanthrene           | <0.4 U              | <0.39 U              | <0.39 U              | <0.39 U              | <3.7 U              | <0.4 U               |
| Dibenzothiophene                      | 0.46                | <0.39 U              | <0.39 U              | 0.39                 | <3.7 U              | <0.4 U               |
| 2/3-Methylbenzothiophene              | <0.4 U              | <0.39 U              | <0.39 U              | <0.39 U              | <3.7 U              | <0.4 U               |
| 4,6-Dimethyldibenzothiophene          | 0.53                | 13.1                 | 8.95                 | 4.75                 | <3.7 U              | 14.3                 |
| C1-Phenanthrenes/Anthracenes          | 2.74 M,B            | 2.39 M,B             | 2.18 M,B             | 2.80 M,B             | 9.85 M              | 3.16 M,B             |
| C2-Phenanthrenes/Anthracenes          | 0.97 M              | 0.74 M               | 1.07 M               | 0.71 M               | <3.7 U              | 1.29 M               |
| C3-Phenanthrenes/Anthracenes          | <0.4 U              | <0.39 U              | 0.47 M               | <0.39 U              | <3.7 U              | <0.4 U               |
| C4-Phenanthrenes/Anthracenes          | 0.56 M              | 0.49 M               | 0.52                 | 0.59                 | <3.7 U              | 0.71                 |
| C1-Fluorenes                          | 0.85 M              | 0.74 M               | 0.57 M               | 0.91 M               | <3.7 U              | 0.80 M               |
| C2-Fluorenes                          | <0.4 U              | <0.39 U              | <0.39 U              | <0.39 U              | <3.7 U              | <0.4 U               |
| C3-Fluorenes                          | <0.4 U              | <0.39 U              | <0.39 U              | <0.39 U              | <3.7 U              | <0.4 U               |
| C1-Dibenzothiophenes                  | 0.53 M              | 0.72 M               | 0.60 M               | 0.52 M               | <3.7 U              | 0.83 M               |
| C2-Dibenzothiophenes                  | 0.87 M              | 16.0 M               | 10.6 M               | 5.08 M               | <3.7 U              | 16.80 M              |
| C3-Dibenzothiophenes                  | <0.4 U              | <0.39 U              | <0.39 U              | <0.39 U              | <3.7 U              | <0.4 U               |
| C4-Dibenzothiophenes                  | <0.4 U              | <0.39 U              | <0.39 U              | <0.39 U              | <3.7 U              | <0.4 U               |
| Anthracene                            | <0.4 U              | <0.39 U              | <0.39 U              | <0.39 U              | <3.7 U              | <0.4 U               |
| Fluoranthene                          | 1.24 B              | 1.06 B               | 1.09 B               | 1.35 B               | 6.07                | 1.16 B               |
| 1-Methylfluoranthene                  | <0.4 U              | <0.39 U              | <0.39 U              | <0.39 U              | <3.7 U              | <0.4 U               |
| 3-Methylfluoranthene/Benzo(a)fluorene | <0.4 U              | <0.39 U              | <0.39 U              | <0.39 U              | <3.7 U              | <0.4 U               |
| Pyrene                                | 0.76                | 0.66                 | 0.53                 | 0.74                 | 3.81                | 0.69                 |
| C1-Fluoranthenes/Pyrenes              | 0.43 M              | <0.39 U              | <0.39 U              | 0.56 M               | <3.7 U              | 0.74 M               |
| C2-Fluoranthenes/Pyrenes              | <0.4 U              | <0.39 U              | <0.39 U              | <0.39 U              | <3.7 U              | <0.4 U               |
| C3-Fluoranthenes/Pyrenes              | <0.4 U              | <0.39 U              | <0.39 U              | <0.39 U              | <3.7 U              | <0.4 U               |
| C4-Fluoranthenes/Pyrenes              | <0.4 U              | <0.39 U              | <0.39 U              | <0.39 U              | <3.7 U              | <0.4 U               |

| ALS Life Sciences               |                     |                                                              |                      |   |                      |   |                      |   |                     |   |                      |   |
|---------------------------------|---------------------|--------------------------------------------------------------|----------------------|---|----------------------|---|----------------------|---|---------------------|---|----------------------|---|
| Sample Analysis Summary Report  |                     |                                                              |                      |   |                      |   |                      |   |                     |   |                      |   |
| Sample Name                     | PLOT 71 - 5<br>JARS |                                                              | PLOT 109 - 5<br>JARS |   | PLOT 110 - 4<br>JARS |   | PLOT 114 - 4<br>JARS |   | PLOT 117 - 1<br>JAR |   | PLOT 123 - 3<br>JARS |   |
| ALS Sample ID                   | L2756078-4          |                                                              | L2756078-5           |   | L2756078-6           |   | L2756078-7           |   | L2756078-8          |   | L2756078-9           |   |
| Benzo(a)anthracene              | <0.4                | U                                                            | <0.39                | U | <0.39                | U | <0.39                | U | <3.7                | U | <0.4                 | U |
| 7,12-Dimethylbenz(a)anthracene  | <0.4                | U                                                            | <0.39                | U | <0.39                | U | <0.39                | U | <3.7                | U | <0.4                 | U |
| C1-Benz(a)anthracenes/Chrysenes | <0.4                | U                                                            | <0.39                | U | <0.39                | U | <0.39                | U | <3.7                | U | <0.4                 | U |
| C2-Benz(a)anthracenes/Chrysenes | <0.4                | U                                                            | <0.39                | U | <0.39                | U | <0.39                | U | <3.7                | U | <0.4                 | U |
| C3-Benz(a)anthracenes/Chrysenes | <0.4                | U                                                            | <0.39                | U | <0.39                | U | <0.39                | U | <3.7                | U | <0.4                 | U |
| C4-Benz(a)anthracenes/Chrysenes | <0.4                | U                                                            | <0.39                | U | <0.39                | U | <0.39                | U | <3.7                | U | <0.4                 | U |
| Chrysene/Triphenylene           | 1.00                |                                                              | 0.67                 |   | 1.25                 |   | 1.03                 |   | <3.7                | U | 1.74                 |   |
| 1-Methylchrysene                | <0.4                | U                                                            | <0.39                | U | <0.39                | U | <0.39                | U | <3.7                | U | <0.4                 | U |
| 5/6-Methylchrysene              | <0.4                | U                                                            | <0.39                | U | <0.39                | U | <0.39                | U | <3.7                | U | <0.4                 | U |
| 3,11/5,9-Dimethylchrysene       | <0.4                | U                                                            | <0.39                | U | <0.39                | U | <0.39                | U | <3.7                | U | <0.4                 | U |
| Benzo(b)flouranthene            | <0.4                | U                                                            | 0.61                 |   | 0.63                 | M | 0.58                 |   | <3.7                | U | 0.76                 | M |
| Benzo(k)fluoranthene            | <0.4                | U                                                            | 1.28                 |   | 1.05                 |   | 1.09                 | M | <3.7                | U | 0.92                 | M |
| Benzo(e)Pyrene                  | <0.4                | U                                                            | <0.39                | U | <0.39                | U | <0.39                | U | <3.7                | U | <0.4                 | U |
| C1-Benzofluoranthenes/BAPs      | <0.4                | U                                                            | <0.39                | U | <0.39                | U | <0.39                | U | <3.7                | U | <0.4                 | U |
| C2-Benzofluoranthenes/BAPs      | <0.4                | U                                                            | <0.39                | U | <0.39                | U | <0.39                | U | <3.7                | U | <0.4                 | U |
| Benzo(a)pyrene                  | <0.4                | U                                                            | <0.39                | U | <0.39                | U | <0.39                | U | <3.7                | U | <0.4                 | U |
| 7-Methylbenzo(a)pyrene          | <0.4                | U                                                            | <0.39                | U | <0.39                | U | <0.39                | U | <3.7                | U | <0.4                 | U |
| Perylene                        | <0.4                | U                                                            | <0.39                | U | <0.39                | U | <0.39                | U | <3.7                | U | <0.4                 | U |
| Indeno(1,2,3-cd)pyrene          | <0.4                | U                                                            | <0.39                | U | <0.39                | U | <0.39                | U | <3.7                | U | <0.4                 | U |
| Dibenz(ah)anthracene            | <0.4                | U                                                            | <0.39                | U | <0.39                | U | <0.39                | U | <3.7                | U | <0.4                 | U |
| Benzo(ghi)perylene              | <0.4                | U                                                            | <0.39                | U | <0.39                | U | <0.39                | U | <3.7                | U | <0.4                 | U |
| Extraction Standards            | % Rec               |                                                              | % Rec                |   | % Rec                |   | % Rec                |   | % Rec               |   | % Rec                |   |
| d8-Naphthalene(ES)              | 47.9                |                                                              | 50.0                 |   | 67.3                 |   | 66.0                 |   | 45.5                |   | 45.6                 |   |
| d10-2-Methylnaphthalene(ES)     | 62.9                |                                                              | 63.8                 |   | 81.1                 |   | 81.6                 |   | 63.0                |   | 60.1                 |   |
| d8-Acenaphthylene(ES)           | 71.1                |                                                              | 74.2                 |   | 88.7                 |   | 87.5                 |   | 77.2                |   | 75.5                 |   |
| d10-Phenanthrene(ES)            | 55.8                |                                                              | 67.7                 |   | 67.3                 |   | 71.0                 |   | 64.9                |   | 65.4                 |   |
| d10-Anthracene(ES)              | 50.9                |                                                              | 62.0                 |   | 63.8                 |   | 65.0                 |   | 61.2                |   | 60.2                 |   |
| d10-Fluoranthene(ES)            | 55.3                |                                                              | 76.7                 |   | 69.3                 |   | 71.7                 |   | 60.6                |   | 70.2                 |   |
| d12-Benzo(a)anthracene(ES)      | 58.9                |                                                              | 65.8                 |   | 66.8                 |   | 62.7                 |   | 60.6                |   | 68.3                 |   |
| d12-Chrysene(ES)                | 65.3                |                                                              | 69.0                 |   | 69.1                 |   | 65.8                 |   | 68.6                |   | 67.5                 |   |
| d12-Benzo(b)fluoranthene(ES)    | 57.5                |                                                              | 57.4                 |   | 55.6                 |   | 52.2                 |   | 48.0                |   | 59.6                 |   |
| d12-Benzo(k)fluoranthene(ES)    | 64.1                |                                                              | 70.3                 |   | 62.1                 |   | 62.8                 |   | 58.0                |   | 70.7                 |   |
| d12-Benzo(a)pyrene(ES)          | 62.7                |                                                              | 67.5                 |   | 68.9                 |   | 65.5                 |   | 54.2                |   | 70.9                 |   |
| d12-Perylene(ES)                | 56.1                |                                                              | 67.2                 |   | 64.6                 |   | 63.8                 |   | 60.4                |   | 63.2                 |   |
| d12-Indeno(1,2,3-cd)pyrene(ES)  | 54.0                |                                                              | 66.5                 |   | 62.8                 |   | 69.1                 |   | 62.5                |   | 63.2                 |   |
| d14-Dibenz(ah)anthracene(ES)    | 40.9                |                                                              | 52.3                 |   | 49.2                 |   | 54.6                 |   | 49.2                |   | 49.3                 |   |
|                                 | U                   | Indicates that this compound was not detected above the LOD. |                      |   |                      |   |                      |   |                     |   |                      |   |
|                                 | M                   | Indicates that a peak has been manually integrated.          |                      |   |                      |   |                      |   |                     |   |                      |   |



| ALS Life Sciences                     |                      |                              |       |
|---------------------------------------|----------------------|------------------------------|-------|
| Sample Analysis Summary Report        |                      |                              |       |
| Sample Name                           | PLOT 402 - 6<br>JARS | Laboratory<br>Control Sample |       |
| ALS Sample ID                         | L2756078-10          | WG3789954-2                  |       |
| Sample Size                           | 10.18                | 1                            |       |
| Sample units                          | g(wwt)               | n/a                          |       |
| Moisture Content                      | 72.7%                | n/a                          |       |
| Matrix                                | Tissue               | QC                           |       |
| Sampling Date                         | 25-May-24            | n/a                          |       |
| Extraction Date                       | 26-Jul-24            | 26-Jul-24                    |       |
| Target Analytes                       | ng/g(wwt)            |                              | % Rec |
| Naphthalene                           | 4.27                 | B                            | 99    |
| Quinoline                             | <0.39                | U                            |       |
| 2-Methylnaphthalene                   | 2.73                 | B                            | 84    |
| 1-Methylnaphthalene                   | 1.29                 |                              | 84    |
| 1,2-Dimethylnaphthalene               | 0.77                 | M                            |       |
| 2,6-Dimethylnaphthalene               | 0.68                 | B                            | 85    |
| 2,3,5-Trimethylnaphthalene            | 0.39                 | M                            | 85    |
| 2,3,6-Trimethylnaphthalene            | <0.39                | U                            |       |
| 1,4,6,7-Tetramethylnaphthalene        | <0.39                | U                            |       |
| C1-Naphthalenes                       | 3.44                 | M,B                          |       |
| C2-Naphthalenes                       | 3.19                 | M,B                          |       |
| C3-Naphthalenes                       | 1.63                 | M,B                          |       |
| C4-Naphthalenes                       | 1.02                 | M,B                          |       |
| Biphenyl                              | 0.47                 |                              | 81    |
| Acenaphthylene                        | <0.39                | U                            | 76    |
| Acenaphthene                          | <0.39                | U                            | 72    |
| C1-Biphenyl                           | 1.29                 | M,B                          |       |
| C2-Biphenyl                           | 0.31                 | M                            |       |
| C1-Acenaphthenes                      | <0.39                | U                            |       |
| Fluorene                              | 0.94                 |                              | 88    |
| 2-Methylfluorene                      | 1.27                 | M                            |       |
| 1,7-Dimethylfluorene                  | <0.39                | U                            |       |
| Phenanthrene                          | 3.28                 | B                            | 86    |
| 3-Methylphenanthrene                  | 0.68                 | M                            |       |
| 2-Methylphenanthrene                  | 0.88                 | M                            |       |
| 9/4-Methylphenanthrene                | <0.39                | U                            |       |
| 1-Methylphenanthrene                  | 0.40                 | M                            | 89    |
| 2-Methylanthracene                    | <0.39                | U                            |       |
| 1,7-Dimethylphenanthrene              | <0.39                | U                            |       |
| 1,8-Dimethylphenanthrene              | <0.39                | U                            |       |
| 2,6-Dimethylphenanthrene              | 0.61                 | M                            |       |
| 3,6-Dimethylphenanthrene              | 0.85                 | M                            |       |
| Retene                                | 1.36                 |                              |       |
| 1,2,6-Trimethylphenanthrene           | <0.39                | U                            |       |
| Dibenzothiophene                      | <0.39                | U                            | 70    |
| 2/3-Methylbenzothiophene              | <0.39                | U                            |       |
| 4,6-Dimethyldibenzothiophene          | <0.39                | U                            |       |
| C1-Phenanthrenes/Anthracenes          | 2.55                 | M,B                          |       |
| C2-Phenanthrenes/Anthracenes          | 0.71                 | M                            |       |
| C3-Phenanthrenes/Anthracenes          | <0.39                | U                            |       |
| C4-Phenanthrenes/Anthracenes          | 0.45                 |                              |       |
| C1-Fluorenes                          | 0.72                 | M                            |       |
| C2-Fluorenes                          | <0.39                | U                            |       |
| C3-Fluorenes                          | <0.39                | U                            |       |
| C1-Dibenzothiophenes                  | 0.41                 | M                            |       |
| C2-Dibenzothiophenes                  | <0.39                | U                            |       |
| C3-Dibenzothiophenes                  | 0.57                 | M                            |       |
| C4-Dibenzothiophenes                  | <0.39                | U                            |       |
| Anthracene                            | <0.39                | U                            | 78    |
| Fluoranthene                          | 1.06                 | B                            | 80    |
| 1-Methylfluoranthene                  | <0.39                | U                            |       |
| 3-Methylfluoranthene/Benzo(a)fluorene | <0.39                | U                            |       |
| Pyrene                                | 0.69                 |                              | 76    |
| C1-Fluoranthenes/Pyrenes              | <0.39                | U                            |       |
| C2-Fluoranthenes/Pyrenes              | <0.39                | U                            |       |
| C3-Fluoranthenes/Pyrenes              | <0.39                | U                            |       |
| C4-Fluoranthenes/Pyrenes              | <0.39                | U                            |       |

| ALS Life Sciences               |                      |                                                              |                              |  |
|---------------------------------|----------------------|--------------------------------------------------------------|------------------------------|--|
| Sample Analysis Summary Report  |                      |                                                              |                              |  |
| Sample Name                     | PLOT 402 - 6<br>JARS |                                                              | Laboratory<br>Control Sample |  |
| ALS Sample ID                   | L2756078-10          |                                                              | WG3789954-2                  |  |
| Benzo(a)anthracene              | <0.39                | U                                                            | 79                           |  |
| 7,12-Dimethylbenz(a)anthracene  | <0.39                | U                                                            |                              |  |
| C1-Benz(a)anthracenes/Chrysenes | <0.39                | U                                                            |                              |  |
| C2-Benz(a)anthracenes/Chrysenes | <0.39                | U                                                            |                              |  |
| C3-Benz(a)anthracenes/Chrysenes | <0.39                | U                                                            |                              |  |
| C4-Benz(a)anthracenes/Chrysenes | <0.39                | U                                                            |                              |  |
| Chrysene/Triphenylene           | 0.68                 |                                                              | 84                           |  |
| 1-Methylchrysene                | <0.39                | U                                                            |                              |  |
| 5/6-Methylchrysene              | <0.39                | U                                                            |                              |  |
| 3,11/5,9-Dimethylchrysene       | <0.39                | U                                                            |                              |  |
| Benzo(b)flouranthene            | <0.39                | U                                                            | 78                           |  |
| Benzo(k)fluoranthene            | <0.39                | U                                                            | 81                           |  |
| Benzo(e)Pyrene                  | <0.39                | U                                                            | 91                           |  |
| C1-Benzofluoranthenes/BAPs      | <0.39                | U                                                            |                              |  |
| C2-Benzofluoranthenes/BAPs      | <0.39                | U                                                            |                              |  |
| Benzo(a)pyrene                  | <0.39                | U                                                            | 79                           |  |
| 7-Methylbenzo(a)pyrene          | <0.39                | U                                                            |                              |  |
| Perylene                        | <0.39                | U                                                            | 64                           |  |
| Indeno(1,2,3-cd)pyrene          | <0.39                | U                                                            | 75                           |  |
| Dibenz(ah)anthracene            | <0.39                | U                                                            | 79                           |  |
| Benzo(ghi)perylene              | <0.39                | U                                                            | 83                           |  |
| Extraction Standards            | % Rec                |                                                              | % Rec                        |  |
| d8-Naphthalene(ES)              | 52.2                 |                                                              | 69.7                         |  |
| d10-2-Methylnaphthalene(ES)     | 68.1                 |                                                              | 80.2                         |  |
| d8-Acenapthylene(ES)            | 83.7                 |                                                              | 81.7                         |  |
| d10-Phenanthrene(ES)            | 59.6                 |                                                              | 59.3                         |  |
| d10-Anthracene(ES)              | 53.6                 |                                                              | 58.0                         |  |
| d10-Fluoranthene(ES)            | 57.6                 |                                                              | 61.3                         |  |
| d12-Benzo(a)anthracene(ES)      | 63.0                 |                                                              | 82.7                         |  |
| d12-Chrysene(ES)                | 67.6                 |                                                              | 80.1                         |  |
| d12-Benzo(b)fluoranthene(ES)    | 50.6                 |                                                              | 65.8                         |  |
| d12-Benzo(k)fluoranthene(ES)    | 60.3                 |                                                              | 78.5                         |  |
| d12-Benzo(a)pyrene(ES)          | 58.4                 |                                                              | 87.6                         |  |
| d12-Perylene(ES)                | 62.4                 |                                                              | 72.2                         |  |
| d12-Indeno(1,2,3-cd)pyrene(ES)  | 58.8                 |                                                              | 80.3                         |  |
| d14-Dibenz(ah)anthracene(ES)    | 46.6                 |                                                              | 60.4                         |  |
|                                 | U                    | Indicates that this compound was not detected above the LOD. |                              |  |
|                                 | M                    | Indicates that a peak has been manually integrated.          |                              |  |

# ALS Life Sciences

## Laboratory Method Blank Analysis Report

|                    |                                |                 |           |                                                                                 |
|--------------------|--------------------------------|-----------------|-----------|---------------------------------------------------------------------------------|
| <b>Sample Name</b> | <b>Method Blank (Corn Oil)</b> | Sampling Date   | n/a       | <div>Approved:<br/><i>Andrew Reid</i><br/>--e-signature--<br/>08-Aug-2024</div> |
| ALS Sample ID      | WG3789954-1                    | Extraction Date | 26-Jul-24 |                                                                                 |
| Analysis Method    | PAH by GCMS                    |                 |           |                                                                                 |
| Analysis Type      | blank                          |                 |           |                                                                                 |
| Sample Matrix      | QC                             |                 |           |                                                                                 |
| Sample Size        | 10.5 g(wwt)                    |                 |           |                                                                                 |
| Percent Moisture   | n/a                            |                 |           |                                                                                 |
| Split Ratio        | 2                              | Workgroup       | WG3789954 |                                                                                 |

|                        |                  |
|------------------------|------------------|
| <b>Run Information</b> | <b>Run 1</b>     |
| Filename               | 24080613.D       |
| Run Date               | 8/6/2024 15:27   |
| Final Volume           | 1 mL             |
| Dilution Factor        | 1                |
| Analysis Units         | ng/g(wwt)        |
| Instrument             | MSD-5            |
| Column                 | HP5MS US2498036H |

| Target Analytes                | Ret. Time | Concentration ng/g(wwt) | Flags |
|--------------------------------|-----------|-------------------------|-------|
| Naphthalene                    | 2.91      | 0.99                    |       |
| Quinoline                      | NotFnd    | <0.38                   | U     |
| 2-Methylnaphthalene            | 3.49      | 0.42                    |       |
| 1-Methylnaphthalene            | 3.60      | <0.38                   | U     |
| 1,2-Dimethylnaphthalene        | NotFnd    | <0.38                   | U     |
| 2,6-Dimethylnaphthalene        | 4.22      | 0.67 M                  |       |
| 2,3,5-Trimethylnaphthalene     | 5.55      | <0.38                   | U     |
| 2,3,6-Trimethylnaphthalene     | 5.42      | <0.38                   | U     |
| 1,4,6,7-Tetramethylnaphthalene | NotFnd    | <0.38                   | U     |
| C1-Naphthalenes                | 3.49      | 0.59 M                  |       |
| C2-Naphthalenes                | 4.05      | 0.63 M                  |       |
| C3-Naphthalenes                | 5.42      | 0.77 M                  |       |
| C4-Naphthalenes                | 5.90      | 0.90 M                  |       |
| Biphenyl                       | 4.01      | <0.38                   | U     |
| Acenaphthylene                 | 4.57      | <0.38                   | U     |
| Acenaphthene                   | 4.88      | <0.38                   | U     |
| C1-Biphenyl                    | 4.81      | 0.60 M                  |       |
| C2-Biphenyl                    | NotFnd    | <0.38                   | U     |
| C1-Acenaphthenes               | 5.55      | <0.38                   | U     |
| Fluorene                       | 5.78      | <0.38                   | U     |
| 2-Methylfluorene               | NotFnd    | <0.38                   | U     |
| 1,7-Dimethylfluorene           | NotFnd    | <0.38                   | U     |
| Phenanthrene                   | 7.92      | <0.38                   | U     |
| 3-Methylphenanthrene           | 9.24      | <0.38                   | U     |
| 2-Methylphenanthrene           | 9.34      | <0.38                   | U     |
| 9/4-Methylphenanthrene         | 9.48      | <0.38                   | U     |
| 1-Methylphenanthrene           | 9.57      | <0.38                   | U     |
| 2-Methylanthracene             | 9.64      | <0.38                   | U     |
| 1,7-Dimethylphenanthrene       | NotFnd    | <0.38                   | U     |
| 1,8-Dimethylphenanthrene       | NotFnd    | <0.38                   | U     |
| 2,6-Dimethylphenanthrene       | NotFnd    | <0.38                   | U     |
| 3,6-Dimethylphenanthrene       | NotFnd    | <0.38                   | U     |
| Retene                         | NotFnd    | <0.38                   | U     |
| 1,2,6-Trimethylphenanthrene    | NotFnd    | <0.38                   | U     |
| Dibenzothiophene               | NotFnd    | <0.38                   | U     |
| 2/3-Methylbenzothiophene       | NotFnd    | <0.38                   | U     |
| 4,6-Dimethyldibenzothiophene   | NotFnd    | <0.38                   | U     |
| C1-Phenanthrenes/Anthracenes   | 9.24      | 0.63 M                  |       |
| C2-Phenanthrenes/Anthracenes   | 10.09     | <0.38                   | U     |
| C3-Phenanthrenes/Anthracenes   | 12.27     | <0.38                   | U     |
| C4-Phenanthrenes/Anthracenes   | NotFnd    | <0.38                   | U     |
| C1-Fluorenes                   | NotFnd    | <0.38                   | U     |
| C2-Fluorenes                   | NotFnd    | <0.38                   | U     |

# ALS Life Sciences

## Laboratory Method Blank Analysis Report

|                                                            |                                |                 |           |
|------------------------------------------------------------|--------------------------------|-----------------|-----------|
| <b>Sample Name</b>                                         | <b>Method Blank (Corn Oil)</b> | Sampling Date   | n/a       |
| ALS Sample ID                                              | WG3789954-1                    | Extraction Date | 26-Jul-24 |
| Analysis Method                                            | PAH by GCMS                    |                 |           |
| Analysis Type                                              | blank                          |                 |           |
| Sample Matrix                                              | QC                             |                 |           |
| Sample Size                                                | 10.5 g(wwt)                    |                 |           |
| Percent Moisture                                           | n/a                            |                 |           |
| Split Ratio                                                | 2                              | Workgroup       | WG3789954 |
| Approved:<br>Andrew Reid<br>--e-signature--<br>08-Aug-2024 |                                |                 |           |

|                                     |        |        |    |  |
|-------------------------------------|--------|--------|----|--|
| C3-Fluorenes                        | NotFnd | <0.38  | U  |  |
| C1-Dibenzothiophenes                | NotFnd | <0.38  | U  |  |
| C2-Dibenzothiophenes                | NotFnd | <0.38  | U  |  |
| C3-Dibenzothiophenes                | NotFnd | <0.38  | U  |  |
| C4-Dibenzothiophenes                | NotFnd | <0.38  | U  |  |
| Anthracene                          | 7.99   | <0.38  | U  |  |
| Fluoranthene                        | 11.28  | <0.38  | U  |  |
| 1-Methylfluoranthene                | 13.09  | <0.38  | U  |  |
| 3-Methylfluoranthene/Benzo(a)fluore | 13.29  | <0.38  | U  |  |
| Pyrene                              | 11.91  | <0.38  | U  |  |
| C1-Fluoranthenes/Pyrenes            | 13.29  | <0.38  | U  |  |
| C2-Fluoranthenes/Pyrenes            | 16.06  | 0.56 M | EM |  |
| C3-Fluoranthenes/Pyrenes            | 17.32  | <0.38  | U  |  |
| C4-Fluoranthenes/Pyrenes            | 17.92  | <0.38  | U  |  |
| Benzo(a)anthracene                  | 15.81  | <0.38  | U  |  |
| 7,12-Dimethylbenz(a)anthracene      | NotFnd | <0.38  | U  |  |
| C1-Benz(a)anthracenes/Chrysenes     | NotFnd | <0.38  | U  |  |
| C2-Benz(a)anthracenes/Chrysenes     | NotFnd | <0.38  | U  |  |
| C3-Benz(a)anthracenes/Chrysenes     | NotFnd | <0.38  | U  |  |
| C4-Benz(a)anthracenes/Chrysenes     | NotFnd | <0.38  | U  |  |
| Chrysene/Triphenylene               | 15.93  | <0.38  | U  |  |
| 1-Methylchrysene                    | NotFnd | <0.38  | U  |  |
| 5/6-Methylchrysene                  | NotFnd | <0.38  | U  |  |
| 3,11/5,9-Dimethylchrysene           | NotFnd | <0.38  | U  |  |
| Benzo(b)fluoranthene                | 19.14  | <0.38  | U  |  |
| Benzo(k)fluoranthene                | 19.21  | <0.38  | U  |  |
| Benzo(e)Pyrene                      | NotFnd | <0.38  | U  |  |
| C1-Benzofluoranthenes/BAPs          | NotFnd | <0.38  | U  |  |
| C2-Benzofluoranthenes/BAPs          | NotFnd | <0.38  | U  |  |
| Benzo(a)pyrene                      | NotFnd | <0.38  | U  |  |
| 7-Methylbenzo(a)pyrene              | NotFnd | <0.38  | U  |  |
| Perylene                            | NotFnd | <0.38  | U  |  |
| Indeno(1,2,3-cd)pyrene              | NotFnd | <0.38  | U  |  |
| Dibenz(ah)anthracene                | NotFnd | <0.38  | U  |  |
| Benzo(ghi)perylene                  | NotFnd | <0.38  | U  |  |

| Extraction Standards           | ng  |       | % Rec | Limits |
|--------------------------------|-----|-------|-------|--------|
| d8-Naphthalene(ES)             | 200 | 2.90  | 72.8  | 5-150  |
| d10-2-Methylnaphthalene(ES)    | 200 | 3.46  | 82.6  | 5-150  |
| d8-Acenaphthylene(ES)          | 200 | 4.57  | 86.1  | 5-150  |
| d10-Phenanthrene(ES)           | 200 | 7.87  | 65.6  | 5-150  |
| d10-Anthracene(ES)             | 200 | 7.99  | 65.1  | 5-150  |
| d10-Fluoranthene(ES)           | 200 | 11.23 | 61.6  | 5-150  |
| d12-Benzo(a)anthracene(ES)     | 200 | 15.74 | 73.7  | 5-150  |
| d12-Chrysene(ES)               | 200 | 15.85 | 73.9  | 5-150  |
| d12-Benzo(b)fluoranthene(ES)   | 200 | 19.07 | 65.2  | 5-150  |
| d12-Benzo(k)fluoranthene(ES)   | 200 | 19.15 | 73.1  | 5-150  |
| d12-Benzo(a)pyrene(ES)         | 200 | 19.95 | 78.4  | 5-150  |
| d12-Perylene(ES)               | 200 | 20.18 | 71.6  | 5-150  |
| d12-Indeno(1,2,3-cd)pyrene(ES) | 200 | 23.39 | 69.8  | 5-150  |
| d14-Dibenz(ah)anthracene(ES)   | 200 | 23.55 | 54.7  | 5-150  |
| d12-Benzo(ghi)perylene(ES)     | 200 | 24.27 | 52.7  | 5-150  |

|      |                                                                                                                        |
|------|------------------------------------------------------------------------------------------------------------------------|
| M    | Indicates that a peak has been manually integrated.                                                                    |
| U    | Indicates that this compound was not detected above the MDL.                                                           |
| EMPC | This result is an Estimated Maximum Possible Concentration (EMPC) due to interference or positive id criterion failure |

# ALS Life Sciences

## Laboratory Method Blank Analysis Report

|                  |  |                        |        |                                                                          |           |
|------------------|--|------------------------|--------|--------------------------------------------------------------------------|-----------|
| Sample Name      |  | Method Blank (Reagent) |        | Sampling Date                                                            | n/a       |
| ALS Sample ID    |  | WG3789954-4            |        | Extraction Date                                                          | 26-Jul-24 |
| Analysis Method  |  | PAH by GCMS            |        |                                                                          |           |
| Analysis Type    |  | blank                  |        |                                                                          |           |
| Sample Matrix    |  | QC                     |        | <div>Approved:<br/>Andrew Reid<br/>--e-signature--<br/>08-Aug-2024</div> |           |
| Sample Size      |  | 10.5                   | g(wwt) |                                                                          |           |
| Percent Moisture |  | n/a                    |        |                                                                          |           |
| Split Ratio      |  | 2                      |        |                                                                          |           |
| Workgroup        |  | WG3789954              |        |                                                                          |           |

|                 |  |                  |  |  |  |
|-----------------|--|------------------|--|--|--|
| Run Information |  | Run 1            |  |  |  |
| Filename        |  | 24080614.D       |  |  |  |
| Run Date        |  | 8/6/2024 16:04   |  |  |  |
| Final Volume    |  | 1 mL             |  |  |  |
| Dilution Factor |  | 1                |  |  |  |
| Analysis Units  |  | ng/g(wwt)        |  |  |  |
| Instrument      |  | MSD-5            |  |  |  |
| Column          |  | HP5MS US2498036H |  |  |  |

|                                |           |                         |       |
|--------------------------------|-----------|-------------------------|-------|
| Target Analytes                | Ret. Time | Concentration ng/g(wwt) | Flags |
| Naphthalene                    |           | NQ                      |       |
| Quinoline                      |           | NQ                      |       |
| 2-Methylnaphthalene            |           | NQ                      |       |
| 1-Methylnaphthalene            |           | NQ                      |       |
| 1,2-Dimethylnaphthalene        |           | NQ                      |       |
| 2,6-Dimethylnaphthalene        |           | NQ                      |       |
| 2,3,5-Trimethylnaphthalene     |           | NQ                      |       |
| 2,3,6-Trimethylnaphthalene     |           | NQ                      |       |
| 1,4,6,7-Tetramethylnaphthalene |           | NQ                      |       |
| C1-Naphthalenes                |           | NQ                      |       |
| C2-Naphthalenes                |           | NQ                      |       |
| C3-Naphthalenes                |           | NQ                      |       |
| C4-Naphthalenes                |           | NQ                      |       |
| Biphenyl                       |           | NQ                      |       |
| Acenaphthylene                 |           | NQ                      |       |
| Acenaphthene                   |           | NQ                      |       |
| C1-Biphenyl                    |           | NQ                      |       |
| C2-Biphenyl                    |           | NQ                      |       |
| C1-Acenaphthenes               |           | NQ                      |       |
| Fluorene                       | 5.78      | <0.38                   | U     |
| 2-Methylfluorene               | 7.15      | <0.38                   | U     |
| 1,7-Dimethylfluorene           | NotFnd    | <0.38                   | U     |
| Phenanthrene                   | 7.92      | 1.28                    |       |
| 3-Methylphenanthrene           | 9.26      | <0.38                   | U     |
| 2-Methylphenanthrene           | 9.34      | <0.38                   | U     |
| 9/4-Methylphenanthrene         | 9.45      | <0.38                   | U     |
| 1-Methylphenanthrene           | 9.57      | <0.38                   | U     |
| 2-Methylanthracene             | 9.63      | <0.38                   | U     |
| 1,7-Dimethylphenanthrene       | NotFnd    | <0.38                   | U     |
| 1,8-Dimethylphenanthrene       | NotFnd    | <0.38                   | U     |
| 2,6-Dimethylphenanthrene       | NotFnd    | <0.38                   | U     |
| 3,6-Dimethylphenanthrene       | NotFnd    | <0.38                   | U     |
| Retene                         | NotFnd    | <0.38                   | U     |
| 1,2,6-Trimethylphenanthrene    | NotFnd    | <0.38                   | U     |
| Dibenzothiophene               | 7.62      | <0.38                   | U     |
| 2/3-Methylbenzothiophene       | NotFnd    | <0.38                   | U     |
| 4,6-Dimethyldibenzothiophene   | NotFnd    | <0.38                   | U     |
| C1-Phenanthrenes/Anthracenes   | 9.34      | 0.69 M                  |       |
| C2-Phenanthrenes/Anthracenes   | NotFnd    | <0.38                   | U     |
| C3-Phenanthrenes/Anthracenes   | NotFnd    | <0.38                   | U     |
| C4-Phenanthrenes/Anthracenes   | NotFnd    | <0.38                   | U     |
| C1-Fluorenes                   | NotFnd    | <0.38                   | U     |
| C2-Fluorenes                   | NotFnd    | <0.38                   | U     |



# ALS Life Sciences

## Laboratory Method Blank Analysis Report

|                    |                               |                 |           |                                                                                 |
|--------------------|-------------------------------|-----------------|-----------|---------------------------------------------------------------------------------|
| <b>Sample Name</b> | <b>Method Blank (Reagent)</b> | Sampling Date   | n/a       | <div>Approved:<br/><i>Andrew Reid</i><br/>--e-signature--<br/>08-Aug-2024</div> |
| ALS Sample ID      | WG3789954-4                   | Extraction Date | 26-Jul-24 |                                                                                 |
| Analysis Method    | PAH by GCMS                   |                 |           |                                                                                 |
| Analysis Type      | blank                         |                 |           |                                                                                 |
| Sample Matrix      | QC                            |                 |           |                                                                                 |
| Sample Size        | 10.5 g(wwt)                   |                 |           |                                                                                 |
| Percent Moisture   | n/a                           |                 |           |                                                                                 |
| Split Ratio        | 2                             | Workgroup       | WG3789954 |                                                                                 |

|                                     |        |       |   |
|-------------------------------------|--------|-------|---|
| C3-Fluorenes                        | NotFnd | <0.38 | U |
| C1-Dibenzothiophenes                | NotFnd | <0.38 | U |
| C2-Dibenzothiophenes                | NotFnd | <0.38 | U |
| C3-Dibenzothiophenes                | NotFnd | <0.38 | U |
| C4-Dibenzothiophenes                | NotFnd | <0.38 | U |
| Anthracene                          | NotFnd | <0.38 | U |
| Fluoranthene                        | 11.28  | 0.42  |   |
| 1-Methylfluoranthene                | 13.09  | <0.38 | U |
| 3-Methylfluoranthene/Benzo(a)fluore | 13.29  | <0.38 | U |
| Pyrene                              | 11.91  | <0.38 | U |
| C1-Fluoranthenes/Pyrenes            | NotFnd | <0.38 | U |
| C2-Fluoranthenes/Pyrenes            | NotFnd | <0.38 | U |
| C3-Fluoranthenes/Pyrenes            | NotFnd | <0.38 | U |
| C4-Fluoranthenes/Pyrenes            | NotFnd | <0.38 | U |
| Benzo(a)anthracene                  | 15.80  | <0.38 | U |
| 7,12-Dimethylbenz(a)anthracene      | NotFnd | <0.38 | U |
| C1-Benz(a)anthracenes/Chrysenes     | NotFnd | <0.38 | U |
| C2-Benz(a)anthracenes/Chrysenes     | NotFnd | <0.38 | U |
| C3-Benz(a)anthracenes/Chrysenes     | NotFnd | <0.38 | U |
| C4-Benz(a)anthracenes/Chrysenes     | NotFnd | <0.38 | U |
| Chrysene/Triphenylene               | 15.93  | <0.38 | U |
| 1-Methylchrysene                    | NotFnd | <0.38 | U |
| 5/6-Methylchrysene                  | NotFnd | <0.38 | U |
| 3,11/5,9-Dimethylchrysene           | NotFnd | <0.38 | U |
| Benzo(b)fluoranthene                | 19.15  | <0.38 | U |
| Benzo(k)fluoranthene                | 19.21  | <0.38 | U |
| Benzo(e)Pyrene                      | NotFnd | <0.38 | U |
| C1-Benzofluoranthenes/BAPs          | NotFnd | <0.38 | U |
| C2-Benzofluoranthenes/BAPs          | NotFnd | <0.38 | U |
| Benzo(a)pyrene                      | NotFnd | <0.38 | U |
| 7-Methylbenzo(a)pyrene              | NotFnd | <0.38 | U |
| Perylene                            | NotFnd | <0.38 | U |
| Indeno(1,2,3-cd)pyrene              | 23.46  | <0.38 | U |
| Dibenz(ah)anthracene                | 23.65  | <0.38 | U |
| Benzo(ghi)perylene                  | 24.37  | <0.38 | U |

| Extraction Standards           | ng  |       | % Rec | Limits |
|--------------------------------|-----|-------|-------|--------|
| d8-Naphthalene(ES)             | 200 | 2.90  | 1.7   | 5-150  |
| d10-2-Methylnaphthalene(ES)    | 200 | 3.46  | 5.6   | 5-150  |
| d8-Acenaphthylene(ES)          | 200 | 4.57  | 9.6   | 5-150  |
| d10-Phenanthrene(ES)           | 200 | 7.87  | 48.6  | 5-150  |
| d10-Anthracene(ES)             | 200 | 7.99  | 47.4  | 5-150  |
| d10-Fluoranthene(ES)           | 200 | 11.23 | 62.1  | 5-150  |
| d12-Benzo(a)anthracene(ES)     | 200 | 15.74 | 63.8  | 5-150  |
| d12-Chrysene(ES)               | 200 | 15.85 | 73.4  | 5-150  |
| d12-Benzo(b)fluoranthene(ES)   | 200 | 19.07 | 50.1  | 5-150  |
| d12-Benzo(k)fluoranthene(ES)   | 200 | 19.16 | 57.4  | 5-150  |
| d12-Benzo(a)pyrene(ES)         | 200 | 19.95 | 52.4  | 5-150  |
| d12-Perylene(ES)               | 200 | 20.18 | 61.9  | 5-150  |
| d12-Indeno(1,2,3-cd)pyrene(ES) | 200 | 23.39 | 58.2  | 5-150  |
| d14-Dibenz(ah)anthracene(ES)   | 200 | 23.55 | 44.3  | 5-150  |
| d12-Benzo(ghi)perylene(ES)     | 200 | 24.27 | 48.7  | 5-150  |

|    |                                                              |
|----|--------------------------------------------------------------|
| M  | Indicates that a peak has been manually integrated.          |
| U  | Indicates that this compound was not detected above the MDL. |
| NQ | Indicates that this compound was not quantifiable.           |

# ALS Life Sciences

## Sample Analysis Report

|                                                            |                        |                 |           |
|------------------------------------------------------------|------------------------|-----------------|-----------|
| <b>Sample Name</b>                                         | <b>PLOT 4 - 6 JARS</b> | Sampling Date   | 25-May-24 |
| ALS Sample ID                                              | L2756078-1             | Extraction Date | 26-Jul-24 |
| Analysis Method                                            | PAH by GCMS            |                 |           |
| Analysis Type                                              | sample                 |                 |           |
| Sample Matrix                                              | Tissue                 |                 |           |
| Sample Size                                                | 10.18 g(wwt)           |                 |           |
| Percent Moisture                                           | 72.0%                  |                 |           |
| Split Ratio                                                | 2                      | Workgroup       | WG3789954 |
| Approved:<br>Andrew Reid<br>--e-signature--<br>08-Aug-2024 |                        |                 |           |

|                        |                  |
|------------------------|------------------|
| <b>Run Information</b> | <b>Run 1</b>     |
| Filename               | 24080618.D       |
| Run Date               | 8/6/2024 18:35   |
| Final Volume           | 1 mL             |
| Dilution Factor        | 1                |
| Analysis Units         | ng/g(wwt)        |
| Instrument             | MSD-5            |
| Column                 | HP5MS US2498036H |

| Target Analytes                | Ret. Time | Concentration ng/g(wwt) | Flags |
|--------------------------------|-----------|-------------------------|-------|
| Naphthalene                    | 2.91      | 3.16                    | B     |
| Quinoline                      | 3.18      | 1.28                    |       |
| 2-Methylnaphthalene            | 3.49      | 2.37                    | B     |
| 1-Methylnaphthalene            | 3.61      | 1.28                    |       |
| 1,2-Dimethylnaphthalene        | 4.01      | 0.68 M                  |       |
| 2,6-Dimethylnaphthalene        | 4.21      | 0.64                    | B     |
| 2,3,5-Trimethylnaphthalene     | 5.56      | 0.48                    |       |
| 2,3,6-Trimethylnaphthalene     | 5.40      | <0.39                   | U     |
| 1,4,6,7-Tetramethylnaphthalene | 7.74      | <0.39                   | U     |
| C1-Naphthalenes                | 3.49      | 3.07 M                  | B     |
| C2-Naphthalenes                | 4.01      | 3.01 M                  |       |
| C3-Naphthalenes                | 5.42      | 1.85 M                  | B     |
| C4-Naphthalenes                | 7.07      | 1.32 M                  | B     |
| Biphenyl                       | 4.01      | 0.47                    |       |
| Acenaphthylene                 | 4.57      | <0.39                   | U     |
| Acenaphthene                   | 4.88      | <0.39                   | U     |
| C1-Biphenyl                    | 4.81      | 1.61 M                  | B     |
| C2-Biphenyl                    | 5.78      | <0.39                   | U     |
| C1-Acenaphthenes               | 5.56      | <0.39                   | U     |
| Fluorene                       | 5.78      | 0.90                    |       |
| 2-Methylfluorene               | 7.18      | <0.39                   | U     |
| 1,7-Dimethylfluorene           | 8.22      | <0.39                   | U     |
| Phenanthrene                   | 7.92      | 4.31                    | B     |
| 3-Methylphenanthrene           | 9.26      | 0.75 M                  |       |
| 2-Methylphenanthrene           | 9.34      | 1.10 M                  |       |
| 9/4-Methylphenanthrene         | 9.49      | <0.39                   | U     |
| 1-Methylphenanthrene           | 9.57      | 0.41 M                  |       |
| 2-Methylanthracene             | 9.63      | <0.39                   | U     |
| 1,7-Dimethylphenanthrene       | 10.61     | <0.39                   | U     |
| 1,8-Dimethylphenanthrene       | 10.72     | <0.39                   | U     |
| 2,6-Dimethylphenanthrene       | 10.95     | 1.12 M                  |       |
| 3,6-Dimethylphenanthrene       | 11.10     | 1.54 M                  |       |
| Retene                         | 13.15     | 2.50                    |       |
| 1,2,6-Trimethylphenanthrene    | 13.35     | <0.39                   | U     |
| Dibenzothiophene               | 7.62      | <0.39                   | U     |
| 2/3-Methylbenzothiophene       | 9.01      | <0.39                   | U     |
| 4,6-Dimethyldibenzothiophene   | 9.80      | 7.93                    |       |
| C1-Phenanthrenes/Anthracenes   | 9.34      | 2.97 M                  | B     |
| C2-Phenanthrenes/Anthracenes   | 11.10     | 1.40 M                  |       |
| C3-Phenanthrenes/Anthracenes   | 12.40     | 0.49 M                  |       |
| C4-Phenanthrenes/Anthracenes   | 13.15     | 0.99 M                  |       |
| C1-Fluorenes                   | 7.06      | 0.95 M                  |       |
| C2-Fluorenes                   | 8.12      | <0.39                   | U     |

ALS Life Sciences

Sample Analysis Report

|                  |                 |        |                 |           |                                                            |
|------------------|-----------------|--------|-----------------|-----------|------------------------------------------------------------|
| Sample Name      | PLOT 4 - 6 JARS |        | Sampling Date   | 25-May-24 | Approved:<br>Andrew Reid<br>--e-signature--<br>08-Aug-2024 |
| ALS Sample ID    | L2756078-1      |        | Extraction Date | 26-Jul-24 |                                                            |
| Analysis Method  | PAH by GCMS     |        |                 |           |                                                            |
| Analysis Type    | sample          |        |                 |           |                                                            |
| Sample Matrix    | Tissue          |        |                 |           |                                                            |
| Sample Size      | 10.18           | g(wwt) |                 |           |                                                            |
| Percent Moisture | 72.0%           |        |                 |           |                                                            |
| Split Ratio      | 2               |        | Workgroup       | WG3789954 |                                                            |

|                                     |        |       |   |
|-------------------------------------|--------|-------|---|
| C3-Fluorenes                        | 10.72  | <0.39 | U |
| C1-Dibenzothiophenes                | 8.78   | 0.52  | M |
| C2-Dibenzothiophenes                | 9.80   | 9.39  | M |
| C3-Dibenzothiophenes                | 10.94  | 0.75  | M |
| C4-Dibenzothiophenes                | NotFnd | <0.39 | U |
| Anthracene                          | 8.04   | <0.39 | U |
| Fluoranthene                        | 11.28  | 1.76  | B |
| 1-Methylfluoranthene                | 13.07  | <0.39 | U |
| 3-Methylfluoranthene/Benzo(a)fluore | 13.31  | <0.39 | U |
| Pyrene                              | 11.91  | 0.88  |   |
| C1-Fluoranthenes/Pyrenes            | 13.07  | 0.61  | M |
| C2-Fluoranthenes/Pyrenes            | 16.48  | <0.39 | U |
| C3-Fluoranthenes/Pyrenes            | 17.62  | <0.39 | U |
| C4-Fluoranthenes/Pyrenes            | NotFnd | <0.39 | U |
| Benzo(a)anthracene                  | 15.81  | <0.39 | U |
| 7,12-Dimethylbenz(a)anthracene      | NotFnd | <0.39 | U |
| C1-Benz(a)anthracenes/Chrysenes     | NotFnd | <0.39 | U |
| C2-Benz(a)anthracenes/Chrysenes     | NotFnd | <0.39 | U |
| C3-Benz(a)anthracenes/Chrysenes     | NotFnd | <0.39 | U |
| C4-Benz(a)anthracenes/Chrysenes     | NotFnd | <0.39 | U |
| Chrysene/Triphenylene               | 15.91  | 1.47  |   |
| 1-Methylchrysene                    | NotFnd | <0.39 | U |
| 5/6-Methylchrysene                  | NotFnd | <0.39 | U |
| 3,11/5,9-Dimethylchrysene           | NotFnd | <0.39 | U |
| Benzo(b)fluoranthene                | 19.14  | 0.62  |   |
| Benzo(k)fluoranthene                | 19.22  | 0.80  |   |
| Benzo(e)Pyrene                      | NotFnd | <0.39 | U |
| C1-Benzofluoranthenes/BAPs          | NotFnd | <0.39 | U |
| C2-Benzofluoranthenes/BAPs          | NotFnd | <0.39 | U |
| Benzo(a)pyrene                      | NotFnd | <0.39 | U |
| 7-Methylbenzo(a)pyrene              | NotFnd | <0.39 | U |
| Perylene                            | NotFnd | <0.39 | U |
| Indeno(1,2,3-cd)pyrene              | 23.46  | <0.39 | U |
| Dibenz(ah)anthracene                | 23.65  | <0.39 | U |
| Benzo(ghi)perylene                  | 24.37  | <0.39 | U |

| Extraction Standards           | ng  |       | % Rec | Limits |
|--------------------------------|-----|-------|-------|--------|
| d8-Naphthalene(ES)             | 200 | 2.90  | 69.4  | 5-150  |
| d10-2-Methylnaphthalene(ES)    | 200 | 3.46  | 82.3  | 5-150  |
| d8-Acenaphthylene(ES)          | 200 | 4.57  | 88.6  | 5-150  |
| d10-Phenanthrene(ES)           | 200 | 7.87  | 67.1  | 5-150  |
| d10-Anthracene(ES)             | 200 | 7.99  | 60.7  | 5-150  |
| d10-Fluoranthene(ES)           | 200 | 11.22 | 71.2  | 5-150  |
| d12-Benzo(a)anthracene(ES)     | 200 | 15.74 | 69.6  | 5-150  |
| d12-Chrysene(ES)               | 200 | 15.85 | 73.7  | 5-150  |
| d12-Benzo(b)fluoranthene(ES)   | 200 | 19.07 | 60.3  | 5-150  |
| d12-Benzo(k)fluoranthene(ES)   | 200 | 19.15 | 68.1  | 5-150  |
| d12-Benzo(a)pyrene(ES)         | 200 | 19.95 | 71.3  | 5-150  |
| d12-Perylene(ES)               | 200 | 20.18 | 63.3  | 5-150  |
| d12-Indeno(1,2,3-cd)pyrene(ES) | 200 | 23.38 | 65.4  | 5-150  |
| d14-Dibenz(ah)anthracene(ES)   | 200 | 23.55 | 52.0  | 5-150  |
| d12-Benzo(ghi)perylene(ES)     | 200 | 24.27 | 50.9  | 5-150  |

|   |                                                                                                        |
|---|--------------------------------------------------------------------------------------------------------|
| M | Indicates that a peak has been manually integrated.                                                    |
| U | Indicates that this compound was not detected above the MDL.                                           |
| B | Indicates that this compound was detected in the method blank at greater than 10% of the sample value. |



# ALS Life Sciences

## Sample Analysis Report

|                    |                  |                 |                                                            |
|--------------------|------------------|-----------------|------------------------------------------------------------|
| <b>Sample Name</b> | <b>Duplicate</b> | Sampling Date   | n/a                                                        |
| ALS Sample ID      | WG3789954-5      | Extraction Date | 26-Jul-24                                                  |
| Analysis Method    | PAH by GCMS      |                 |                                                            |
| Analysis Type      | sample           |                 |                                                            |
| Sample Matrix      | QC               |                 |                                                            |
| Sample Size        | 10.05 g(wwt)     |                 |                                                            |
| Percent Moisture   | 72.0%            |                 |                                                            |
| Split Ratio        | 2                | Workgroup       | WG3789954                                                  |
|                    |                  |                 | Approved:<br>Andrew Reid<br>--e-signature--<br>08-Aug-2024 |

|                        |                  |
|------------------------|------------------|
| <b>Run Information</b> | <b>Run 1</b>     |
| Filename               | 24080619.D       |
| Run Date               | 8/6/2024 19:12   |
| Final Volume           | 1 mL             |
| Dilution Factor        | 1                |
| Analysis Units         | ng/g(wwt)        |
| Instrument             | MSD-5            |
| Column                 | HP5MS US2498036H |

| Target Analytes                | Ret. Time | Concentration ng/g(wwt) | Flags | RPD   |
|--------------------------------|-----------|-------------------------|-------|-------|
| Naphthalene                    | 2.91      | 3.06                    | B     | 3.2   |
| Quinoline                      | 3.18      | 0.65 M                  |       | 65.3  |
| 2-Methylnaphthalene            | 3.49      | 2.38                    | B     | 0.4   |
| 1-Methylnaphthalene            | 3.61      | 1.27                    |       | 0.8   |
| 1,2-Dimethylnaphthalene        | 4.01      | 0.68 M                  |       | 0.0   |
| 2,6-Dimethylnaphthalene        | 4.22      | 0.61                    | B     | 4.8   |
| 2,3,5-Trimethylnaphthalene     | 5.56      | 0.52 M                  |       | 8.0   |
| 2,3,6-Trimethylnaphthalene     | 5.40      | <0.4                    | U     | -     |
| 1,4,6,7-Tetramethylnaphthalene | 7.73      | <0.4                    | U     | -     |
| C1-Naphthalenes                | 3.49      | 3.17 M                  |       | 3.2   |
| C2-Naphthalenes                | 4.01      | 3.10 M                  | B     | 2.9   |
| C3-Naphthalenes                | 5.42      | 1.96 M                  | B     | 5.8   |
| C4-Naphthalenes                | 6.29      | 2.08 M                  | B     | 44.7  |
| Biphenyl                       | 4.01      | 0.43                    |       | 8.9   |
| Acenaphthylene                 | 4.57      | <0.4                    | U     | -     |
| Acenaphthene                   | 4.88      | <0.4                    | U     | -     |
| C1-Biphenyl                    | 4.82      | 1.44 M                  | B     | 11.1  |
| C2-Biphenyl                    | 5.88      | <0.4                    | U     | -     |
| C1-Acenaphthenes               | 5.56      | <0.4                    | U     | -     |
| Fluorene                       | 5.78      | 0.80                    |       | 11.8  |
| 2-Methylfluorene               | 7.18      | <0.4                    | U     | -     |
| 1,7-Dimethylfluorene           | 8.12      | <0.4                    | U     | -     |
| Phenanthrene                   | 7.92      | 3.52                    | B     | 20.2  |
| 3-Methylphenanthrene           | 9.26      | 0.61 M                  |       | 20.6  |
| 2-Methylphenanthrene           | 9.34      | 0.83 M                  |       | 28.0  |
| 9/4-Methylphenanthrene         | 9.49      | <0.4                    | U     | -     |
| 1-Methylphenanthrene           | 9.57      | <0.4                    | U     | -     |
| 2-Methylanthracene             | 9.63      | <0.4                    | U     | -     |
| 1,7-Dimethylphenanthrene       | 10.61     | <0.4                    | U     | -     |
| 1,8-Dimethylphenanthrene       | 10.72     | <0.4                    | U     | -     |
| 2,6-Dimethylphenanthrene       | 10.95     | 0.65 M                  |       | 53.1  |
| 3,6-Dimethylphenanthrene       | 11.10     | 1.28 M                  |       | 18.4  |
| Retene                         | 13.15     | 2.06                    |       | 19.3  |
| 1,2,6-Trimethylphenanthrene    | 13.35     | <0.4                    | U     | -     |
| Dibenzothiophene               | 7.62      | <0.4                    | U     | -     |
| 2/3-Methylbenzothiophene       | 9.01      | <0.4                    | U     | -     |
| 4,6-Dimethyldibenzothiophene   | 9.80      | 2.43                    |       | 106.2 |
| C1-Phenanthrenes/Anthracenes   | 9.34      | 2.18 M                  | B     | 30.7  |
| C2-Phenanthrenes/Anthracenes   | 11.10     | 1.29 M                  |       | 8.2   |
| C3-Phenanthrenes/Anthracenes   | 12.40     | 0.44 M                  |       | 10.8  |
| C4-Phenanthrenes/Anthracenes   | 13.15     | 0.84 M                  |       | 16.4  |
| C1-Fluorenes                   | 7.06      | 0.63 M                  |       | 40.5  |
| C2-Fluorenes                   | 8.47      | <0.4                    | U     | -     |

# ALS Life Sciences

## Sample Analysis Report

|                    |                  |                 |                                                            |
|--------------------|------------------|-----------------|------------------------------------------------------------|
| <b>Sample Name</b> | <b>Duplicate</b> | Sampling Date   | n/a                                                        |
| ALS Sample ID      | WG3789954-5      | Extraction Date | 26-Jul-24                                                  |
| Analysis Method    | PAH by GCMS      |                 |                                                            |
| Analysis Type      | sample           |                 |                                                            |
| Sample Matrix      | QC               |                 |                                                            |
| Sample Size        | 10.05 g(wwt)     |                 |                                                            |
| Percent Moisture   | 72.0%            |                 |                                                            |
| Split Ratio        | 2                | Workgroup       | WG3789954                                                  |
|                    |                  |                 | Approved:<br>Andrew Reid<br>--e-signature--<br>08-Aug-2024 |

|                                     |        |      |   |      |
|-------------------------------------|--------|------|---|------|
| C3-Fluorenes                        | 10.22  | <0.4 | U | -    |
| C1-Dibenzothiophenes                | 8.78   | 0.51 | M | 1.9  |
| C2-Dibenzothiophenes                | 9.80   | 3.29 | M | 96.2 |
| C3-Dibenzothiophenes                | 10.65  | 0.66 | M | 12.8 |
| C4-Dibenzothiophenes                | NotFnd | <0.4 | U | -    |
| Anthracene                          | 8.04   | <0.4 | U | -    |
| Fluoranthene                        | 11.28  | 1.21 | B | 37.0 |
| 1-Methylfluoranthene                | 13.07  | <0.4 | U | -    |
| 3-Methylfluoranthene/Benzo(a)fluore | 13.32  | <0.4 | U | -    |
| Pyrene                              | 11.91  | 0.64 |   | 31.6 |
| C1-Fluoranthenes/Pyrenes            | 13.05  | 0.52 | M | 15.9 |
| C2-Fluoranthenes/Pyrenes            | 16.48  | <0.4 | U | -    |
| C3-Fluoranthenes/Pyrenes            | 17.62  | <0.4 | U | -    |
| C4-Fluoranthenes/Pyrenes            | NotFnd | <0.4 | U | -    |
| Benzo(a)anthracene                  | 15.81  | <0.4 | U | -    |
| 7,12-Dimethylbenz(a)anthracene      | NotFnd | <0.4 | U | -    |
| C1-Benz(a)anthracenes/Chrysenes     | NotFnd | <0.4 | U | -    |
| C2-Benz(a)anthracenes/Chrysenes     | NotFnd | <0.4 | U | -    |
| C3-Benz(a)anthracenes/Chrysenes     | NotFnd | <0.4 | U | -    |
| C4-Benz(a)anthracenes/Chrysenes     | NotFnd | <0.4 | U | -    |
| Chrysene/Triphenylene               | 15.91  | 1.27 |   | 14.6 |
| 1-Methylchrysene                    | NotFnd | <0.4 | U | -    |
| 5/6-Methylchrysene                  | NotFnd | <0.4 | U | -    |
| 3,11/5,9-Dimethylchrysene           | NotFnd | <0.4 | U | -    |
| Benzo(b)fluoranthene                | 19.14  | 0.52 | M | 17.5 |
| Benzo(k)fluoranthene                | 19.22  | 0.63 | M | 23.8 |
| Benzo(e)Pyrene                      | NotFnd | <0.4 | U | -    |
| C1-Benzofluoranthenes/BAPs          | NotFnd | <0.4 | U | -    |
| C2-Benzofluoranthenes/BAPs          | NotFnd | <0.4 | U | -    |
| Benzo(a)pyrene                      | NotFnd | <0.4 | U | -    |
| 7-Methylbenzo(a)pyrene              | NotFnd | <0.4 | U | -    |
| Perylene                            | NotFnd | <0.4 | U | -    |
| Indeno(1,2,3-cd)pyrene              | 23.46  | <0.4 | U | -    |
| Dibenz(ah)anthracene                | 23.65  | <0.4 | U | -    |
| Benzo(ghi)perylene                  | 24.37  | <0.4 | U | -    |

| Extraction Standards           | ng        | % Rec | Limits |
|--------------------------------|-----------|-------|--------|
| d8-Naphthalene(ES)             | 200 2.90  | 60.3  | 5-150  |
| d10-2-Methylnaphthalene(ES)    | 200 3.46  | 75.6  | 5-150  |
| d8-Acenaphthylene(ES)          | 200 4.57  | 84.2  | 5-150  |
| d10-Phenanthrene(ES)           | 200 7.87  | 63.5  | 5-150  |
| d10-Anthracene(ES)             | 200 7.99  | 59.1  | 5-150  |
| d10-Fluoranthene(ES)           | 200 11.22 | 61.7  | 5-150  |
| d12-Benzo(a)anthracene(ES)     | 200 15.74 | 71.2  | 5-150  |
| d12-Chrysene(ES)               | 200 15.85 | 77.4  | 5-150  |
| d12-Benzo(b)fluoranthene(ES)   | 200 19.07 | 63.3  | 5-150  |
| d12-Benzo(k)fluoranthene(ES)   | 200 19.16 | 71.5  | 5-150  |
| d12-Benzo(a)pyrene(ES)         | 200 19.95 | 69.6  | 5-150  |
| d12-Perylene(ES)               | 200 20.18 | 64.5  | 5-150  |
| d12-Indeno(1,2,3-cd)pyrene(ES) | 200 23.39 | 55.4  | 5-150  |
| d14-Dibenz(ah)anthracene(ES)   | 200 23.55 | 43.0  | 5-150  |
| d12-Benzo(ghi)perylene(ES)     | 200 24.27 | 41.5  | 5-150  |

|   |                                                                                                        |
|---|--------------------------------------------------------------------------------------------------------|
| M | Indicates that a peak has been manually integrated.                                                    |
| U | Indicates that this compound was not detected above the MDL.                                           |
| B | Indicates that this compound was detected in the method blank at greater than 10% of the sample value. |

# ALS Life Sciences

## Sample Analysis Report

|                                                            |                         |                 |           |
|------------------------------------------------------------|-------------------------|-----------------|-----------|
| <b>Sample Name</b>                                         | <b>PLOT 11 - 4 JARS</b> | Sampling Date   | 25-May-24 |
| ALS Sample ID                                              | L2756078-2              | Extraction Date | 26-Jul-24 |
| Analysis Method                                            | PAH by GCMS             |                 |           |
| Analysis Type                                              | sample                  |                 |           |
| Sample Matrix                                              | Tissue                  |                 |           |
| Sample Size                                                | 10.02 g(wwt)            |                 |           |
| Percent Moisture                                           | 70.9%                   |                 |           |
| Split Ratio                                                | 2                       | Workgroup       | WG3789954 |
| Approved:<br>Andrew Reid<br>--e-signature--<br>08-Aug-2024 |                         |                 |           |

|                        |                  |
|------------------------|------------------|
| <b>Run Information</b> | <b>Run 1</b>     |
| Filename               | 24080620.D       |
| Run Date               | 8/6/2024 19:50   |
| Final Volume           | 1 mL             |
| Dilution Factor        | 1                |
| Analysis Units         | ng/g(wwt)        |
| Instrument             | MSD-5            |
| Column                 | HP5MS US2498036H |

| Target Analytes                | Ret. Time | Concentration ng/g(wwt) | Flags |
|--------------------------------|-----------|-------------------------|-------|
| Naphthalene                    | 2.91      | 12.2                    |       |
| Quinoline                      | 3.19      | 1.78                    |       |
| 2-Methylnaphthalene            | 3.49      | 7.53                    | B     |
| 1-Methylnaphthalene            | 3.61      | 3.89                    |       |
| 1,2-Dimethylnaphthalene        | 4.01      | 0.88 M                  |       |
| 2,6-Dimethylnaphthalene        | 4.22      | 1.24                    | B     |
| 2,3,5-Trimethylnaphthalene     | 5.56      | 0.77                    |       |
| 2,3,6-Trimethylnaphthalene     | 5.40      | 0.44 M                  |       |
| 1,4,6,7-Tetramethylnaphthalene | 7.74      | 0.48 M                  |       |
| C1-Naphthalenes                | 3.49      | 9.52 M                  | B     |
| C2-Naphthalenes                | 4.22      | 6.10 M                  | B     |
| C3-Naphthalenes                | 5.42      | 3.19 M                  | B     |
| C4-Naphthalenes                | 6.50      | 2.88 M                  | B     |
| Biphenyl                       | 4.01      | 0.52                    |       |
| Acenaphthylene                 | 4.59      | <0.4                    | U     |
| Acenaphthene                   | 4.88      | <0.4                    | U     |
| C1-Biphenyl                    | 4.82      | 1.96 M                  | B     |
| C2-Biphenyl                    | 5.88      | 0.56 M                  |       |
| C1-Acenaphthenes               | 5.56      | 0.43                    |       |
| Fluorene                       | 5.78      | 1.17                    |       |
| 2-Methylfluorene               | 7.18      | <0.4                    | U     |
| 1,7-Dimethylfluorene           | 8.12      | <0.4                    | U     |
| Phenanthrene                   | 7.92      | 4.19                    | B     |
| 3-Methylphenanthrene           | 9.26      | 0.65                    |       |
| 2-Methylphenanthrene           | 9.34      | 0.85 M                  |       |
| 9/4-Methylphenanthrene         | 9.49      | <0.4                    | U     |
| 1-Methylphenanthrene           | 9.57      | <0.4                    | U     |
| 2-Methylanthracene             | 9.63      | <0.4                    | U     |
| 1,7-Dimethylphenanthrene       | 10.72     | 0.43 M                  |       |
| 1,8-Dimethylphenanthrene       | 10.72     | <0.4                    | U     |
| 2,6-Dimethylphenanthrene       | 10.94     | 0.62 M                  |       |
| 3,6-Dimethylphenanthrene       | 11.10     | 0.89 M                  |       |
| Retene                         | 13.15     | 1.43                    |       |
| 1,2,6-Trimethylphenanthrene    | 13.35     | <0.4                    | U     |
| Dibenzothiophene               | 7.62      | <0.4                    | U     |
| 2/3-Methylbenzothiophene       | 9.01      | <0.4                    | U     |
| 4,6-Dimethyldibenzothiophene   | 9.80      | 8.60                    |       |
| C1-Phenanthrenes/Anthracenes   | 9.34      | 2.14 M                  | B     |
| C2-Phenanthrenes/Anthracenes   | 11.10     | 0.94 M                  |       |
| C3-Phenanthrenes/Anthracenes   | 12.40     | 0.41 M                  |       |
| C4-Phenanthrenes/Anthracenes   | 13.15     | 0.60 M                  |       |
| C1-Fluorenes                   | 7.06      | 0.86 M                  |       |
| C2-Fluorenes                   | 8.12      | <0.4                    | U     |

# ALS Life Sciences

## Sample Analysis Report

**Sample Name**            **PLOT 11 - 4 JARS**  
ALS Sample ID            L2756078-2  
Analysis Method          PAH by GCMS  
Analysis Type            sample  
Sample Matrix            Tissue  
Sample Size              10.02            g(wwt)  
Percent Moisture        70.9%  
Split Ratio               2

Sampling Date            25-May-24  
Extraction Date          26-Jul-24

Workgroup                WG3789954

Approved:  
*Andrew Reid*  
--e-signature--  
08-Aug-2024

|                                     |        |      |   |
|-------------------------------------|--------|------|---|
| C3-Fluorenes                        | 10.72  | <0.4 | U |
| C1-Dibenzothiophenes                | 8.78   | 0.66 | M |
| C2-Dibenzothiophenes                | 9.80   | 8.80 | M |
| C3-Dibenzothiophenes                | 11.12  | <0.4 | U |
| C4-Dibenzothiophenes                | 13.15  | <0.4 | U |
| Anthracene                          | 8.04   | <0.4 | U |
| Fluoranthene                        | 11.28  | 1.01 | B |
| 1-Methylfluoranthene                | 13.07  | <0.4 | U |
| 3-Methylfluoranthene/Benzo(a)fluore | 13.31  | <0.4 | U |
| Pyrene                              | 11.91  | 0.56 |   |
| C1-Fluoranthenes/Pyrenes            | 13.07  | <0.4 | U |
| C2-Fluoranthenes/Pyrenes            | 16.05  | <0.4 | U |
| C3-Fluoranthenes/Pyrenes            | 17.21  | <0.4 | U |
| C4-Fluoranthenes/Pyrenes            | NotFnd | <0.4 | U |
| Benzo(a)anthracene                  | 15.81  | <0.4 | U |
| 7,12-Dimethylbenz(a)anthracene      | NotFnd | <0.4 | U |
| C1-Benz(a)anthracenes/Chrysenes     | NotFnd | <0.4 | U |
| C2-Benz(a)anthracenes/Chrysenes     | NotFnd | <0.4 | U |
| C3-Benz(a)anthracenes/Chrysenes     | NotFnd | <0.4 | U |
| C4-Benz(a)anthracenes/Chrysenes     | NotFnd | <0.4 | U |
| Chrysene/Triphenylene               | 15.91  | 0.99 |   |
| 1-Methylchrysene                    | NotFnd | <0.4 | U |
| 5/6-Methylchrysene                  | NotFnd | <0.4 | U |
| 3,11/5,9-Dimethylchrysene           | NotFnd | <0.4 | U |
| Benzo(b)fluoranthene                | 19.14  | 0.46 |   |
| Benzo(k)fluoranthene                | 19.22  | 1.17 |   |
| Benzo(e)Pyrene                      | NotFnd | <0.4 | U |
| C1-Benzofluoranthenes/BAPs          | NotFnd | <0.4 | U |
| C2-Benzofluoranthenes/BAPs          | NotFnd | <0.4 | U |
| Benzo(a)pyrene                      | NotFnd | <0.4 | U |
| 7-Methylbenzo(a)pyrene              | NotFnd | <0.4 | U |
| Perylene                            | NotFnd | <0.4 | U |
| Indeno(1,2,3-cd)pyrene              | 23.46  | <0.4 | U |
| Dibenz(ah)anthracene                | 23.65  | <0.4 | U |
| Benzo(ghi)perylene                  | 24.37  | <0.4 | U |

| Extraction Standards           | ng  |       | % Rec | Limits |
|--------------------------------|-----|-------|-------|--------|
| d8-Naphthalene(ES)             | 200 | 2.91  | 51.3  | 5-150  |
| d10-2-Methylnaphthalene(ES)    | 200 | 3.47  | 67.5  | 5-150  |
| d8-Acenaphthylene(ES)          | 200 | 4.57  | 78.0  | 5-150  |
| d10-Phenanthrene(ES)           | 200 | 7.87  | 63.7  | 5-150  |
| d10-Anthracene(ES)             | 200 | 7.99  | 58.1  | 5-150  |
| d10-Fluoranthene(ES)           | 200 | 11.22 | 67.6  | 5-150  |
| d12-Benzo(a)anthracene(ES)     | 200 | 15.74 | 67.5  | 5-150  |
| d12-Chrysene(ES)               | 200 | 15.85 | 73.6  | 5-150  |
| d12-Benzo(b)fluoranthene(ES)   | 200 | 19.07 | 60.3  | 5-150  |
| d12-Benzo(k)fluoranthene(ES)   | 200 | 19.15 | 68.0  | 5-150  |
| d12-Benzo(a)pyrene(ES)         | 200 | 19.95 | 72.6  | 5-150  |
| d12-Perylene(ES)               | 200 | 20.18 | 62.0  | 5-150  |
| d12-Indeno(1,2,3-cd)pyrene(ES) | 200 | 23.39 | 64.2  | 5-150  |
| d14-Dibenz(ah)anthracene(ES)   | 200 | 23.55 | 51.0  | 5-150  |
| d12-Benzo(ghi)perylene(ES)     | 200 | 24.27 | 49.7  | 5-150  |

M            Indicates that a peak has been manually integrated.  
U            Indicates that this compound was not detected above the MDL.  
  
B            Indicates that this compound was detected in the method blank at greater than 10% of the sample value.

# ALS Life Sciences

## Sample Analysis Report

|                                                            |                         |                 |           |
|------------------------------------------------------------|-------------------------|-----------------|-----------|
| <b>Sample Name</b>                                         | <b>PLOT 70 - 3 JARS</b> | Sampling Date   | 25-May-24 |
| ALS Sample ID                                              | L2756078-3              | Extraction Date | 26-Jul-24 |
| Analysis Method                                            | PAH by GCMS             |                 |           |
| Analysis Type                                              | sample                  |                 |           |
| Sample Matrix                                              | Tissue                  |                 |           |
| Sample Size                                                | 10.18 g(wwt)            |                 |           |
| Percent Moisture                                           | 70.8%                   |                 |           |
| Split Ratio                                                | 2                       | Workgroup       | WG3789954 |
| Approved:<br>Andrew Reid<br>--e-signature--<br>08-Aug-2024 |                         |                 |           |

|                        |                  |
|------------------------|------------------|
| <b>Run Information</b> | <b>Run 1</b>     |
| Filename               | 24080621.D       |
| Run Date               | 8/6/2024 20:28   |
| Final Volume           | 1 mL             |
| Dilution Factor        | 1                |
| Analysis Units         | ng/g(wwt)        |
| Instrument             | MSD-5            |
| Column                 | HP5MS US2498036H |

| Target Analytes                | Ret. Time | Concentration ng/g(wwt) | Flags |
|--------------------------------|-----------|-------------------------|-------|
| Naphthalene                    | 2.92      | 9.73                    | B     |
| Quinoline                      | 3.19      | 2.36                    |       |
| 2-Methylnaphthalene            | 3.50      | 6.44                    |       |
| 1-Methylnaphthalene            | 3.61      | 3.24                    |       |
| 1,2-Dimethylnaphthalene        | 4.01      | 0.93 M                  |       |
| 2,6-Dimethylnaphthalene        | 4.22      | 1.12                    | B     |
| 2,3,5-Trimethylnaphthalene     | 5.56      | 0.81                    |       |
| 2,3,6-Trimethylnaphthalene     | 5.40      | <0.39                   | U     |
| 1,4,6,7-Tetramethylnaphthalene | 7.74      | 0.46 M                  |       |
| C1-Naphthalenes                | 3.50      | 8.19 M                  |       |
| C2-Naphthalenes                | 4.33      | 5.47 M                  | B     |
| C3-Naphthalenes                | 5.42      | 3.49 M                  | B     |
| C4-Naphthalenes                | 6.50      | 2.99 M                  | B     |
| Biphenyl                       | 4.01      | 0.58                    |       |
| Acenaphthylene                 | 4.61      | <0.39                   | U     |
| Acenaphthene                   | 4.88      | <0.39                   | U     |
| C1-Biphenyl                    | 4.82      | 2.05 M                  | B     |
| C2-Biphenyl                    | 5.78      | <0.39                   | U     |
| C1-Acenaphthenes               | 5.56      | 0.46                    |       |
| Fluorene                       | 5.78      | 1.07                    |       |
| 2-Methylfluorene               | 7.06      | 1.29 M                  |       |
| 1,7-Dimethylfluorene           | 8.12      | <0.39                   | U     |
| Phenanthrene                   | 7.92      | 4.70                    | B     |
| 3-Methylphenanthrene           | 9.26      | 0.82 M                  |       |
| 2-Methylphenanthrene           | 9.34      | 1.03 M                  |       |
| 9/4-Methylphenanthrene         | 9.51      | <0.39                   | U     |
| 1-Methylphenanthrene           | 9.57      | 0.45 M                  |       |
| 2-Methylanthracene             | 9.63      | <0.39                   | U     |
| 1,7-Dimethylphenanthrene       | 10.61     | <0.39                   | U     |
| 1,8-Dimethylphenanthrene       | 10.72     | <0.39                   | U     |
| 2,6-Dimethylphenanthrene       | 10.94     | 0.90 M                  |       |
| 3,6-Dimethylphenanthrene       | 11.10     | 0.69 M                  |       |
| Retene                         | 13.15     | 1.10                    |       |
| 1,2,6-Trimethylphenanthrene    | 13.35     | <0.39                   | U     |
| Dibenzothiophene               | 7.62      | <0.39                   | U     |
| 2/3-Methylbenzothiophene       | 9.02      | <0.39                   | U     |
| 4,6-Dimethyldibenzothiophene   | 9.80      | 9.51                    |       |
| C1-Phenanthrenes/Anthracenes   | 9.34      | 2.53 M                  | B     |
| C2-Phenanthrenes/Anthracenes   | 11.10     | 0.96 M                  |       |
| C3-Phenanthrenes/Anthracenes   | 12.39     | <0.39                   | U     |
| C4-Phenanthrenes/Anthracenes   | 13.15     | 0.50 M                  |       |
| C1-Fluorenes                   | 7.06      | 0.96 M                  |       |
| C2-Fluorenes                   | 8.12      | <0.39                   | U     |

# ALS Life Sciences

## Sample Analysis Report

|                    |                         |                 |                                                            |
|--------------------|-------------------------|-----------------|------------------------------------------------------------|
| <b>Sample Name</b> | <b>PLOT 70 - 3 JARS</b> | Sampling Date   | 25-May-24                                                  |
| ALS Sample ID      | L2756078-3              | Extraction Date | 26-Jul-24                                                  |
| Analysis Method    | PAH by GCMS             |                 |                                                            |
| Analysis Type      | sample                  |                 |                                                            |
| Sample Matrix      | Tissue                  |                 |                                                            |
| Sample Size        | 10.18 g(wwt)            |                 |                                                            |
| Percent Moisture   | 70.8%                   |                 |                                                            |
| Split Ratio        | 2                       | Workgroup       | WG3789954                                                  |
|                    |                         |                 |                                                            |
|                    |                         |                 | Approved:<br>Andrew Reid<br>--e-signature--<br>08-Aug-2024 |

|                                     |        |       |   |
|-------------------------------------|--------|-------|---|
| C3-Fluorenes                        | 10.72  | <0.39 | U |
| C1-Dibenzothiophenes                | 8.78   | 0.67  | M |
| C2-Dibenzothiophenes                | 9.80   | 11.1  | M |
| C3-Dibenzothiophenes                | 10.78  | 0.56  | M |
| C4-Dibenzothiophenes                | 13.17  | <0.39 | U |
| Anthracene                          | 8.04   | <0.39 | U |
| Fluoranthene                        | 11.28  | 1.28  | B |
| 1-Methylfluoranthene                | 13.09  | <0.39 | U |
| 3-Methylfluoranthene/Benzo(a)fluore | 13.29  | <0.39 | U |
| Pyrene                              | 11.91  | 0.73  |   |
| C1-Fluoranthenes/Pyrenes            | 13.09  | <0.39 | U |
| C2-Fluoranthenes/Pyrenes            | NotFnd | <0.39 | U |
| C3-Fluoranthenes/Pyrenes            | NotFnd | <0.39 | U |
| C4-Fluoranthenes/Pyrenes            | NotFnd | <0.39 | U |
| Benzo(a)anthracene                  | 15.80  | <0.39 | U |
| 7,12-Dimethylbenz(a)anthracene      | NotFnd | <0.39 | U |
| C1-Benz(a)anthracenes/Chrysenes     | NotFnd | <0.39 | U |
| C2-Benz(a)anthracenes/Chrysenes     | NotFnd | <0.39 | U |
| C3-Benz(a)anthracenes/Chrysenes     | NotFnd | <0.39 | U |
| C4-Benz(a)anthracenes/Chrysenes     | NotFnd | <0.39 | U |
| Chrysene/Triphenylene               | 15.91  | 0.89  |   |
| 1-Methylchrysene                    | NotFnd | <0.39 | U |
| 5/6-Methylchrysene                  | NotFnd | <0.39 | U |
| 3,11/5,9-Dimethylchrysene           | NotFnd | <0.39 | U |
| Benzo(b)fluoranthene                | 19.14  | 0.53  |   |
| Benzo(k)fluoranthene                | 19.22  | 0.97  | M |
| Benzo(e)Pyrene                      | NotFnd | <0.39 | U |
| C1-Benzofluoranthenes/BAPs          | NotFnd | <0.39 | U |
| C2-Benzofluoranthenes/BAPs          | NotFnd | <0.39 | U |
| Benzo(a)pyrene                      | NotFnd | <0.39 | U |
| 7-Methylbenzo(a)pyrene              | NotFnd | <0.39 | U |
| Perylene                            | NotFnd | <0.39 | U |
| Indeno(1,2,3-cd)pyrene              | 23.46  | <0.39 | U |
| Dibenz(ah)anthracene                | 23.66  | <0.39 | U |
| Benzo(ghi)perylene                  | 24.37  | <0.39 | U |

| Extraction Standards           | ng        | % Rec | Limits |
|--------------------------------|-----------|-------|--------|
| d8-Naphthalene(ES)             | 200 2.91  | 41.6  | 5-150  |
| d10-2-Methylnaphthalene(ES)    | 200 3.47  | 53.6  | 5-150  |
| d8-Acenaphthylene(ES)          | 200 4.57  | 64.7  | 5-150  |
| d10-Phenanthrene(ES)           | 200 7.87  | 57.5  | 5-150  |
| d10-Anthracene(ES)             | 200 7.99  | 50.3  | 5-150  |
| d10-Fluoranthene(ES)           | 200 11.22 | 63.1  | 5-150  |
| d12-Benzo(a)anthracene(ES)     | 200 15.74 | 66.5  | 5-150  |
| d12-Chrysene(ES)               | 200 15.85 | 70.6  | 5-150  |
| d12-Benzo(b)fluoranthene(ES)   | 200 19.07 | 52.5  | 5-150  |
| d12-Benzo(k)fluoranthene(ES)   | 200 19.16 | 61.5  | 5-150  |
| d12-Benzo(a)pyrene(ES)         | 200 19.95 | 70.9  | 5-150  |
| d12-Perylene(ES)               | 200 20.19 | 61.6  | 5-150  |
| d12-Indeno(1,2,3-cd)pyrene(ES) | 200 23.38 | 62.9  | 5-150  |
| d14-Dibenz(ah)anthracene(ES)   | 200 23.55 | 48.4  | 5-150  |
| d12-Benzo(ghi)perylene(ES)     | 200 24.27 | 41.8  | 5-150  |

|   |                                                                                                        |
|---|--------------------------------------------------------------------------------------------------------|
| M | Indicates that a peak has been manually integrated.                                                    |
| U | Indicates that this compound was not detected above the MDL.                                           |
| B | Indicates that this compound was detected in the method blank at greater than 10% of the sample value. |



# ALS Life Sciences

## Sample Analysis Report

|                                                            |                         |                 |           |
|------------------------------------------------------------|-------------------------|-----------------|-----------|
| <b>Sample Name</b>                                         | <b>PLOT 71 - 5 JARS</b> | Sampling Date   | 25-May-24 |
| ALS Sample ID                                              | L2756078-4              | Extraction Date | 26-Jul-24 |
| Analysis Method                                            | PAH by GCMS             |                 |           |
| Analysis Type                                              | sample                  |                 |           |
| Sample Matrix                                              | Tissue                  |                 |           |
| Sample Size                                                | 10.06 g(wwt)            |                 |           |
| Percent Moisture                                           | 72.6%                   |                 |           |
| Split Ratio                                                | 2                       | Workgroup       | WG3789954 |
| Approved:<br>Andrew Reid<br>--e-signature--<br>08-Aug-2024 |                         |                 |           |

|                        |                  |
|------------------------|------------------|
| <b>Run Information</b> | <b>Run 1</b>     |
| Filename               | 24080622.D       |
| Run Date               | 8/6/2024 21:06   |
| Final Volume           | 1 mL             |
| Dilution Factor        | 1                |
| Analysis Units         | ng/g(wwt)        |
| Instrument             | MSD-5            |
| Column                 | HP5MS US2498036H |

| Target Analytes                | Ret. Time | Concentration ng/g(wwt) | Flags |
|--------------------------------|-----------|-------------------------|-------|
| Naphthalene                    | 2.92      | 17.5                    | B     |
| Quinoline                      | NotFnd    | <0.4                    | U     |
| 2-Methylnaphthalene            | 3.50      | 11.7                    | B     |
| 1-Methylnaphthalene            | 3.61      | 6.01                    |       |
| 1,2-Dimethylnaphthalene        | 4.01      | 0.96 M                  |       |
| 2,6-Dimethylnaphthalene        | 4.22      | 1.40                    | B     |
| 2,3,5-Trimethylnaphthalene     | 5.56      | 0.83                    |       |
| 2,3,6-Trimethylnaphthalene     | 5.40      | <0.4                    | U     |
| 1,4,6,7-Tetramethylnaphthalene | NotFnd    | <0.4                    | U     |
| C1-Naphthalenes                | 3.50      | 14.8 M                  |       |
| C2-Naphthalenes                | 4.33      | 7.62 M                  | B     |
| C3-Naphthalenes                | 5.42      | 2.80 M                  | B     |
| C4-Naphthalenes                | 6.50      | 2.35 M                  | B     |
| Biphenyl                       | 4.01      | 0.64                    |       |
| Acenaphthylene                 | 4.60      | <0.4                    | U     |
| Acenaphthene                   | 4.88      | <0.4                    | U     |
| C1-Biphenyl                    | 4.82      | 1.88 M                  | B     |
| C2-Biphenyl                    | 5.78      | <0.4                    | U     |
| C1-Acenaphthenes               | 5.56      | 0.46                    |       |
| Fluorene                       | 5.78      | 1.30                    |       |
| 2-Methylfluorene               | 7.06      | 1.49 M                  |       |
| 1,7-Dimethylfluorene           | 8.12      | <0.4                    | U     |
| Phenanthrene                   | 7.92      | 4.71                    | B     |
| 3-Methylphenanthrene           | 9.26      | 0.81                    |       |
| 2-Methylphenanthrene           | 9.34      | 1.12 M                  |       |
| 9/4-Methylphenanthrene         | 9.51      | <0.4                    | U     |
| 1-Methylphenanthrene           | 9.57      | 0.57 M                  |       |
| 2-Methylanthracene             | 9.63      | <0.4                    | U     |
| 1,7-Dimethylphenanthrene       | 10.61     | <0.4                    | U     |
| 1,8-Dimethylphenanthrene       | 10.72     | <0.4                    | U     |
| 2,6-Dimethylphenanthrene       | 10.95     | 0.78 M                  |       |
| 3,6-Dimethylphenanthrene       | 11.10     | 0.86 M                  |       |
| Retene                         | 13.15     | 1.41                    |       |
| 1,2,6-Trimethylphenanthrene    | 13.35     | <0.4                    | U     |
| Dibenzothiophene               | 7.62      | 0.46                    |       |
| 2/3-Methylbenzothiophene       | 9.02      | <0.4                    | U     |
| 4,6-Dimethyldibenzothiophene   | 9.80      | 0.53                    |       |
| C1-Phenanthrenes/Anthracenes   | 9.34      | 2.74 M                  | B     |
| C2-Phenanthrenes/Anthracenes   | 11.10     | 0.97 M                  |       |
| C3-Phenanthrenes/Anthracenes   | 12.40     | <0.4                    | U     |
| C4-Phenanthrenes/Anthracenes   | 13.15     | 0.56 M                  |       |
| C1-Fluorenes                   | 7.06      | 0.85 M                  |       |
| C2-Fluorenes                   | 8.12      | <0.4                    | U     |

# ALS Life Sciences

## Sample Analysis Report

|                  |                  |        |                 |           |                                                                          |
|------------------|------------------|--------|-----------------|-----------|--------------------------------------------------------------------------|
| Sample Name      | PLOT 71 - 5 JARS |        | Sampling Date   | 25-May-24 | <div>Approved:<br/>Andrew Reid<br/>--e-signature--<br/>08-Aug-2024</div> |
| ALS Sample ID    | L2756078-4       |        | Extraction Date | 26-Jul-24 |                                                                          |
| Analysis Method  | PAH by GCMS      |        |                 |           |                                                                          |
| Analysis Type    | sample           |        |                 |           |                                                                          |
| Sample Matrix    | Tissue           |        |                 |           |                                                                          |
| Sample Size      | 10.06            | g(wwt) |                 |           |                                                                          |
| Percent Moisture | 72.6%            |        |                 |           |                                                                          |
| Split Ratio      | 2                |        | Workgroup       | WG3789954 |                                                                          |

|                                     |        |      |   |
|-------------------------------------|--------|------|---|
| C3-Fluorenes                        | 10.72  | <0.4 | U |
| C1-Dibenzothiophenes                | 8.78   | 0.53 | M |
| C2-Dibenzothiophenes                | 9.80   | 0.87 | M |
| C3-Dibenzothiophenes                | 11.07  | <0.4 | U |
| C4-Dibenzothiophenes                | NotFnd | <0.4 | U |
| Anthracene                          | 8.04   | <0.4 | U |
| Fluoranthene                        | 11.28  | 1.24 | B |
| 1-Methylfluoranthene                | 13.07  | <0.4 | U |
| 3-Methylfluoranthene/Benzo(a)fluore | 13.32  | <0.4 | U |
| Pyrene                              | 11.91  | 0.76 |   |
| C1-Fluoranthenes/Pyrenes            | 13.05  | 0.43 | M |
| C2-Fluoranthenes/Pyrenes            | NotFnd | <0.4 | U |
| C3-Fluoranthenes/Pyrenes            | NotFnd | <0.4 | U |
| C4-Fluoranthenes/Pyrenes            | NotFnd | <0.4 | U |
| Benzo(a)anthracene                  | 15.80  | <0.4 | U |
| 7,12-Dimethylbenz(a)anthracene      | NotFnd | <0.4 | U |
| C1-Benz(a)anthracenes/Chrysenes     | NotFnd | <0.4 | U |
| C2-Benz(a)anthracenes/Chrysenes     | NotFnd | <0.4 | U |
| C3-Benz(a)anthracenes/Chrysenes     | NotFnd | <0.4 | U |
| C4-Benz(a)anthracenes/Chrysenes     | NotFnd | <0.4 | U |
| Chrysene/Triphenylene               | 15.91  | 1.00 |   |
| 1-Methylchrysene                    | NotFnd | <0.4 | U |
| 5/6-Methylchrysene                  | NotFnd | <0.4 | U |
| 3,11/5,9-Dimethylchrysene           | NotFnd | <0.4 | U |
| Benzo(b)fluoranthene                | 19.14  | <0.4 | U |
| Benzo(k)fluoranthene                | 19.22  | <0.4 | U |
| Benzo(e)Pyrene                      | NotFnd | <0.4 | U |
| C1-Benzofluoranthenes/BAPs          | NotFnd | <0.4 | U |
| C2-Benzofluoranthenes/BAPs          | NotFnd | <0.4 | U |
| Benzo(a)pyrene                      | NotFnd | <0.4 | U |
| 7-Methylbenzo(a)pyrene              | NotFnd | <0.4 | U |
| Perylene                            | NotFnd | <0.4 | U |
| Indeno(1,2,3-cd)pyrene              | 23.46  | <0.4 | U |
| Dibenz(ah)anthracene                | 23.66  | <0.4 | U |
| Benzo(ghi)perylene                  | 24.37  | <0.4 | U |

| Extraction Standards           | ng  |       | % Rec | Limits |
|--------------------------------|-----|-------|-------|--------|
| d8-Naphthalene(ES)             | 200 | 2.91  | 47.9  | 5-150  |
| d10-2-Methylnaphthalene(ES)    | 200 | 3.47  | 62.9  | 5-150  |
| d8-Acenaphthylene(ES)          | 200 | 4.57  | 71.1  | 5-150  |
| d10-Phenanthrene(ES)           | 200 | 7.87  | 55.8  | 5-150  |
| d10-Anthracene(ES)             | 200 | 7.99  | 50.9  | 5-150  |
| d10-Fluoranthene(ES)           | 200 | 11.23 | 55.3  | 5-150  |
| d12-Benzo(a)anthracene(ES)     | 200 | 15.74 | 58.9  | 5-150  |
| d12-Chrysene(ES)               | 200 | 15.85 | 65.3  | 5-150  |
| d12-Benzo(b)fluoranthene(ES)   | 200 | 19.07 | 57.5  | 5-150  |
| d12-Benzo(k)fluoranthene(ES)   | 200 | 19.15 | 64.1  | 5-150  |
| d12-Benzo(a)pyrene(ES)         | 200 | 19.95 | 62.7  | 5-150  |
| d12-Perylene(ES)               | 200 | 20.19 | 56.1  | 5-150  |
| d12-Indeno(1,2,3-cd)pyrene(ES) | 200 | 23.38 | 54.0  | 5-150  |
| d14-Dibenz(ah)anthracene(ES)   | 200 | 23.55 | 40.9  | 5-150  |
| d12-Benzo(ghi)perylene(ES)     | 200 | 24.27 | 38.3  | 5-150  |

|   |                                                                                                        |
|---|--------------------------------------------------------------------------------------------------------|
| M | Indicates that a peak has been manually integrated.                                                    |
| U | Indicates that this compound was not detected above the MDL.                                           |
| B | Indicates that this compound was detected in the method blank at greater than 10% of the sample value. |



# ALS Life Sciences

## Sample Analysis Report

|                                                            |                          |                 |           |
|------------------------------------------------------------|--------------------------|-----------------|-----------|
| <b>Sample Name</b>                                         | <b>PLOT 109 - 5 JARS</b> | Sampling Date   | 25-May-24 |
| ALS Sample ID                                              | L2756078-5               | Extraction Date | 26-Jul-24 |
| Analysis Method                                            | PAH by GCMS              |                 |           |
| Analysis Type                                              | sample                   |                 |           |
| Sample Matrix                                              | Tissue                   |                 |           |
| Sample Size                                                | 10.31 g(wwt)             |                 |           |
| Percent Moisture                                           | 71.9%                    |                 |           |
| Split Ratio                                                | 2                        | Workgroup       | WG3789954 |
| Approved:<br>Andrew Reid<br>--e-signature--<br>08-Aug-2024 |                          |                 |           |

|                        |                  |
|------------------------|------------------|
| <b>Run Information</b> | <b>Run 1</b>     |
| Filename               | 24080623.D       |
| Run Date               | 8/6/2024 21:43   |
| Final Volume           | 1 mL             |
| Dilution Factor        | 1                |
| Analysis Units         | ng/g(wwt)        |
| Instrument             | MSD-5            |
| Column                 | HP5MS US2498036H |

| Target Analytes                | Ret. Time | Concentration ng/g(wwt) | Flags |
|--------------------------------|-----------|-------------------------|-------|
| Naphthalene                    | 2.92      | 6.07                    | B     |
| Quinoline                      | 3.20      | 3.11                    |       |
| 2-Methylnaphthalene            | 3.50      | 4.92                    | B     |
| 1-Methylnaphthalene            | 3.61      | 2.54                    |       |
| 1,2-Dimethylnaphthalene        | 4.02      | 0.86 M                  |       |
| 2,6-Dimethylnaphthalene        | 4.22      | 0.96                    | B     |
| 2,3,5-Trimethylnaphthalene     | 5.56      | 0.74                    |       |
| 2,3,6-Trimethylnaphthalene     | 5.40      | <0.39                   | U     |
| 1,4,6,7-Tetramethylnaphthalene | 7.74      | 0.62 M                  |       |
| C1-Naphthalenes                | 3.50      | 6.35 M                  |       |
| C2-Naphthalenes                | 4.33      | 4.23 M                  | B     |
| C3-Naphthalenes                | 5.25      | 3.39 M                  | B     |
| C4-Naphthalenes                | 6.50      | 2.89 M                  | B     |
| Biphenyl                       | 4.02      | 0.51                    |       |
| Acenaphthylene                 | 4.59      | <0.39                   | U     |
| Acenaphthene                   | 4.88      | <0.39                   | U     |
| C1-Biphenyl                    | 4.82      | 1.67 M                  | B     |
| C2-Biphenyl                    | 5.78      | <0.39                   | U     |
| C1-Acenaphthenes               | 5.56      | 0.42                    |       |
| Fluorene                       | 5.78      | 1.03                    |       |
| 2-Methylfluorene               | 7.06      | 1.12 M                  |       |
| 1,7-Dimethylfluorene           | 8.12      | <0.39                   | U     |
| Phenanthrene                   | 7.92      | 4.17                    | B     |
| 3-Methylphenanthrene           | 9.26      | 0.70 M                  |       |
| 2-Methylphenanthrene           | 9.34      | 1.12 M                  |       |
| 9/4-Methylphenanthrene         | 9.51      | <0.39                   | U     |
| 1-Methylphenanthrene           | 9.57      | 0.39 M                  |       |
| 2-Methylanthracene             | 9.63      | <0.39                   | U     |
| 1,7-Dimethylphenanthrene       | 10.61     | <0.39                   | U     |
| 1,8-Dimethylphenanthrene       | 10.72     | <0.39                   | U     |
| 2,6-Dimethylphenanthrene       | 10.94     | 0.87 M                  |       |
| 3,6-Dimethylphenanthrene       | 11.10     | 0.77 M                  |       |
| Retene                         | 13.15     | 1.10                    |       |
| 1,2,6-Trimethylphenanthrene    | 13.35     | <0.39                   | U     |
| Dibenzothiophene               | 7.62      | <0.39                   | U     |
| 2/3-Methylbenzothiophene       | 9.01      | <0.39                   | U     |
| 4,6-Dimethyldibenzothiophene   | 9.80      | 13.10                   |       |
| C1-Phenanthrenes/Anthracenes   | 9.34      | 2.39 M                  | B     |
| C2-Phenanthrenes/Anthracenes   | 10.17     | 0.74 M                  |       |
| C3-Phenanthrenes/Anthracenes   | 12.40     | <0.39                   | U     |
| C4-Phenanthrenes/Anthracenes   | 13.15     | 0.49 M                  |       |
| C1-Fluorenes                   | 7.06      | 0.74 M                  |       |
| C2-Fluorenes                   | 7.74      | <0.39                   | U     |

ALS Life Sciences

Sample Analysis Report

|                  |                   |        |                 |           |                                                            |
|------------------|-------------------|--------|-----------------|-----------|------------------------------------------------------------|
| Sample Name      | PLOT 109 - 5 JARS |        | Sampling Date   | 25-May-24 | Approved:<br>Andrew Reid<br>--e-signature--<br>08-Aug-2024 |
| ALS Sample ID    | L2756078-5        |        | Extraction Date | 26-Jul-24 |                                                            |
| Analysis Method  | PAH by GCMS       |        |                 |           |                                                            |
| Analysis Type    | sample            |        |                 |           |                                                            |
| Sample Matrix    | Tissue            |        |                 |           |                                                            |
| Sample Size      | 10.31             | g(wwt) |                 |           |                                                            |
| Percent Moisture | 71.9%             |        |                 |           |                                                            |
| Split Ratio      | 2                 |        | Workgroup       | WG3789954 |                                                            |

|                                     |        |       |   |
|-------------------------------------|--------|-------|---|
| C3-Fluorenes                        | 10.77  | <0.39 | U |
| C1-Dibenzothiophenes                | 8.78   | 0.72  | M |
| C2-Dibenzothiophenes                | 9.80   | 16.0  | M |
| C3-Dibenzothiophenes                | 11.38  | <0.39 | U |
| C4-Dibenzothiophenes                | 13.14  | <0.39 | U |
| Anthracene                          | 8.04   | <0.39 | U |
| Fluoranthene                        | 11.28  | 1.06  | B |
| 1-Methylfluoranthene                | 13.07  | <0.39 | U |
| 3-Methylfluoranthene/Benzo(a)fluore | 13.29  | <0.39 | U |
| Pyrene                              | 11.91  | 0.66  |   |
| C1-Fluoranthenes/Pyrenes            | 13.07  | <0.39 | U |
| C2-Fluoranthenes/Pyrenes            | NotFnd | <0.39 | U |
| C3-Fluoranthenes/Pyrenes            | NotFnd | <0.39 | U |
| C4-Fluoranthenes/Pyrenes            | NotFnd | <0.39 | U |
| Benzo(a)anthracene                  | 15.80  | <0.39 | U |
| 7,12-Dimethylbenz(a)anthracene      | NotFnd | <0.39 | U |
| C1-Benz(a)anthracenes/Chrysenes     | NotFnd | <0.39 | U |
| C2-Benz(a)anthracenes/Chrysenes     | NotFnd | <0.39 | U |
| C3-Benz(a)anthracenes/Chrysenes     | NotFnd | <0.39 | U |
| C4-Benz(a)anthracenes/Chrysenes     | NotFnd | <0.39 | U |
| Chrysene/Triphenylene               | 15.91  | 0.67  |   |
| 1-Methylchrysene                    | NotFnd | <0.39 | U |
| 5/6-Methylchrysene                  | NotFnd | <0.39 | U |
| 3,11/5,9-Dimethylchrysene           | NotFnd | <0.39 | U |
| Benzo(b)fluoranthene                | 19.14  | 0.61  |   |
| Benzo(k)fluoranthene                | 19.22  | 1.28  |   |
| Benzo(e)Pyrene                      | NotFnd | <0.39 | U |
| C1-Benzofluoranthenes/BAPs          | NotFnd | <0.39 | U |
| C2-Benzofluoranthenes/BAPs          | NotFnd | <0.39 | U |
| Benzo(a)pyrene                      | NotFnd | <0.39 | U |
| 7-Methylbenzo(a)pyrene              | NotFnd | <0.39 | U |
| Perylene                            | NotFnd | <0.39 | U |
| Indeno(1,2,3-cd)pyrene              | 23.46  | <0.39 | U |
| Dibenz(ah)anthracene                | 23.65  | <0.39 | U |
| Benzo(ghi)perylene                  | 24.37  | <0.39 | U |

| Extraction Standards           | ng  |       | % Rec | Limits |
|--------------------------------|-----|-------|-------|--------|
| d8-Naphthalene(ES)             | 200 | 2.91  | 50.0  | 5-150  |
| d10-2-Methylnaphthalene(ES)    | 200 | 3.47  | 63.8  | 5-150  |
| d8-Acenaphthylene(ES)          | 200 | 4.58  | 74.2  | 5-150  |
| d10-Phenanthrene(ES)           | 200 | 7.87  | 67.7  | 5-150  |
| d10-Anthracene(ES)             | 200 | 7.99  | 62.0  | 5-150  |
| d10-Fluoranthene(ES)           | 200 | 11.22 | 76.7  | 5-150  |
| d12-Benzo(a)anthracene(ES)     | 200 | 15.74 | 65.8  | 5-150  |
| d12-Chrysene(ES)               | 200 | 15.85 | 69.0  | 5-150  |
| d12-Benzo(b)fluoranthene(ES)   | 200 | 19.07 | 57.4  | 5-150  |
| d12-Benzo(k)fluoranthene(ES)   | 200 | 19.15 | 70.3  | 5-150  |
| d12-Benzo(a)pyrene(ES)         | 200 | 19.95 | 67.5  | 5-150  |
| d12-Perylene(ES)               | 200 | 20.18 | 67.2  | 5-150  |
| d12-Indeno(1,2,3-cd)pyrene(ES) | 200 | 23.38 | 66.5  | 5-150  |
| d14-Dibenz(ah)anthracene(ES)   | 200 | 23.55 | 52.3  | 5-150  |
| d12-Benzo(ghi)perylene(ES)     | 200 | 24.27 | 47.9  | 5-150  |

|   |                                                                                                        |
|---|--------------------------------------------------------------------------------------------------------|
| M | Indicates that a peak has been manually integrated.                                                    |
| U | Indicates that this compound was not detected above the MDL.                                           |
| B | Indicates that this compound was detected in the method blank at greater than 10% of the sample value. |

# ALS Life Sciences

## Sample Analysis Report

|                    |                          |                 |                                                            |
|--------------------|--------------------------|-----------------|------------------------------------------------------------|
| <b>Sample Name</b> | <b>PLOT 110 - 4 JARS</b> | Sampling Date   | 25-May-24                                                  |
| ALS Sample ID      | L2756078-6               | Extraction Date | 26-Jul-24                                                  |
| Analysis Method    | PAH by GCMS              |                 |                                                            |
| Analysis Type      | sample                   |                 |                                                            |
| Sample Matrix      | Tissue                   |                 |                                                            |
| Sample Size        | 10.22 g(wwt)             |                 |                                                            |
| Percent Moisture   | 71.5%                    |                 |                                                            |
| Split Ratio        | 2                        | Workgroup       | WG3789954                                                  |
|                    |                          |                 | Approved:<br>Andrew Reid<br>--e-signature--<br>08-Aug-2024 |

|                        |                  |
|------------------------|------------------|
| <b>Run Information</b> | <b>Run 1</b>     |
| Filename               | 24080624.D       |
| Run Date               | 8/6/2024 22:21   |
| Final Volume           | 1 mL             |
| Dilution Factor        | 1                |
| Analysis Units         | ng/g(wwt)        |
| Instrument             | MSD-5            |
| Column                 | HP5MS US2498036H |

| Target Analytes                | Ret. Time | Concentration ng/g(wwt) | Flags |
|--------------------------------|-----------|-------------------------|-------|
| Naphthalene                    | 2.92      | 4.17                    | B     |
| Quinoline                      | 3.20      | 1.54                    |       |
| 2-Methylnaphthalene            | 3.50      | 3.12                    | B     |
| 1-Methylnaphthalene            | 3.62      | 1.61                    |       |
| 1,2-Dimethylnaphthalene        | 4.02      | 0.66 M                  |       |
| 2,6-Dimethylnaphthalene        | 4.22      | 0.66                    | B     |
| 2,3,5-Trimethylnaphthalene     | 5.56      | 0.46                    |       |
| 2,3,6-Trimethylnaphthalene     | 5.40      | <0.39                   | U     |
| 1,4,6,7-Tetramethylnaphthalene | 7.74      | <0.39                   | U     |
| C1-Naphthalenes                | 3.50      | 4.10 M                  |       |
| C2-Naphthalenes                | 4.22      | 3.12 M                  | B     |
| C3-Naphthalenes                | 5.44      | 1.63 M                  | B     |
| C4-Naphthalenes                | 6.51      | 1.78 M                  | B     |
| Biphenyl                       | 4.02      | 0.45                    |       |
| Acenaphthylene                 | 4.58      | <0.39                   | U     |
| Acenaphthene                   | 4.88      | <0.39                   | U     |
| C1-Biphenyl                    | 4.82      | 1.23 M                  | B     |
| C2-Biphenyl                    | 5.78      | <0.39                   | U     |
| C1-Acenaphthenes               | 5.56      | <0.39                   | U     |
| Fluorene                       | 5.78      | 0.77                    |       |
| 2-Methylfluorene               | 7.06      | 0.90 M                  |       |
| 1,7-Dimethylfluorene           | 8.12      | <0.39                   | U     |
| Phenanthrene                   | 7.92      | 3.23                    | B     |
| 3-Methylphenanthrene           | 9.26      | 0.58                    |       |
| 2-Methylphenanthrene           | 9.34      | 0.98 M                  |       |
| 9/4-Methylphenanthrene         | 9.49      | <0.39                   | U     |
| 1-Methylphenanthrene           | 9.57      | <0.39                   | U     |
| 2-Methylanthracene             | 9.63      | <0.39                   | U     |
| 1,7-Dimethylphenanthrene       | 10.61     | <0.39                   | U     |
| 1,8-Dimethylphenanthrene       | 10.72     | <0.39                   | U     |
| 2,6-Dimethylphenanthrene       | 10.94     | 0.69 M                  |       |
| 3,6-Dimethylphenanthrene       | 11.10     | 1.13 M                  |       |
| Retene                         | 13.15     | 1.56                    |       |
| 1,2,6-Trimethylphenanthrene    | 13.35     | <0.39                   | U     |
| Dibenzothiophene               | 7.62      | <0.39                   | U     |
| 2/3-Methylbenzothiophene       | 9.02      | <0.39                   | U     |
| 4,6-Dimethyldibenzothiophene   | 9.80      | 8.95                    |       |
| C1-Phenanthrenes/Anthracenes   | 9.34      | 2.18 M                  | B     |
| C2-Phenanthrenes/Anthracenes   | 11.10     | 1.07 M                  |       |
| C3-Phenanthrenes/Anthracenes   | 12.40     | 0.47 M                  |       |
| C4-Phenanthrenes/Anthracenes   | 13.15     | 0.52                    |       |
| C1-Fluorenes                   | 7.06      | 0.57 M                  |       |
| C2-Fluorenes                   | 8.12      | <0.39                   | U     |

# ALS Life Sciences

## Sample Analysis Report

|                  |                   |        |                 |                                                            |
|------------------|-------------------|--------|-----------------|------------------------------------------------------------|
| Sample Name      | PLOT 110 - 4 JARS |        | Sampling Date   | 25-May-24                                                  |
| ALS Sample ID    | L2756078-6        |        | Extraction Date | 26-Jul-24                                                  |
| Analysis Method  | PAH by GCMS       |        |                 |                                                            |
| Analysis Type    | sample            |        |                 |                                                            |
| Sample Matrix    | Tissue            |        |                 |                                                            |
| Sample Size      | 10.22             | g(wwt) |                 |                                                            |
| Percent Moisture | 71.5%             |        |                 |                                                            |
| Split Ratio      | 2                 |        | Workgroup       | WG3789954                                                  |
|                  |                   |        |                 | Approved:<br>Andrew Reid<br>--e-signature--<br>08-Aug-2024 |

|                                     |        |       |   |
|-------------------------------------|--------|-------|---|
| C3-Fluorenes                        | 10.72  | <0.39 | U |
| C1-Dibenzothiophenes                | 8.78   | 0.60  | M |
| C2-Dibenzothiophenes                | 9.80   | 10.6  | M |
| C3-Dibenzothiophenes                | 11.21  | <0.39 | U |
| C4-Dibenzothiophenes                | 13.16  | <0.39 | U |
| Anthracene                          | 8.04   | <0.39 | U |
| Fluoranthene                        | 11.28  | 1.09  | B |
| 1-Methylfluoranthene                | 13.07  | <0.39 | U |
| 3-Methylfluoranthene/Benzo(a)fluore | 13.32  | <0.39 | U |
| Pyrene                              | 11.91  | 0.53  |   |
| C1-Fluoranthenes/Pyrenes            | 13.32  | <0.39 | U |
| C2-Fluoranthenes/Pyrenes            | NotFnd | <0.39 | U |
| C3-Fluoranthenes/Pyrenes            | NotFnd | <0.39 | U |
| C4-Fluoranthenes/Pyrenes            | NotFnd | <0.39 | U |
| Benzo(a)anthracene                  | 15.81  | <0.39 | U |
| 7,12-Dimethylbenz(a)anthracene      | NotFnd | <0.39 | U |
| C1-Benz(a)anthracenes/Chrysenes     | NotFnd | <0.39 | U |
| C2-Benz(a)anthracenes/Chrysenes     | NotFnd | <0.39 | U |
| C3-Benz(a)anthracenes/Chrysenes     | NotFnd | <0.39 | U |
| C4-Benz(a)anthracenes/Chrysenes     | NotFnd | <0.39 | U |
| Chrysene/Triphenylene               | 15.91  | 1.25  |   |
| 1-Methylchrysene                    | NotFnd | <0.39 | U |
| 5/6-Methylchrysene                  | NotFnd | <0.39 | U |
| 3,11/5,9-Dimethylchrysene           | NotFnd | <0.39 | U |
| Benzo(b)fluoranthene                | 19.14  | 0.63  | M |
| Benzo(k)fluoranthene                | 19.22  | 1.05  |   |
| Benzo(e)Pyrene                      | NotFnd | <0.39 | U |
| C1-Benzofluoranthenes/BAPs          | NotFnd | <0.39 | U |
| C2-Benzofluoranthenes/BAPs          | NotFnd | <0.39 | U |
| Benzo(a)pyrene                      | NotFnd | <0.39 | U |
| 7-Methylbenzo(a)pyrene              | NotFnd | <0.39 | U |
| Perylene                            | NotFnd | <0.39 | U |
| Indeno(1,2,3-cd)pyrene              | 23.46  | <0.39 | U |
| Dibenz(ah)anthracene                | 23.65  | <0.39 | U |
| Benzo(ghi)perylene                  | 24.37  | <0.39 | U |

| Extraction Standards           | ng  |       | % Rec | Limits |
|--------------------------------|-----|-------|-------|--------|
| d8-Naphthalene(ES)             | 200 | 2.91  | 67.3  | 5-150  |
| d10-2-Methylnaphthalene(ES)    | 200 | 3.47  | 81.1  | 5-150  |
| d8-Acenaphthylene(ES)          | 200 | 4.58  | 88.7  | 5-150  |
| d10-Phenanthrene(ES)           | 200 | 7.87  | 67.3  | 5-150  |
| d10-Anthracene(ES)             | 200 | 7.99  | 63.8  | 5-150  |
| d10-Fluoranthene(ES)           | 200 | 11.22 | 69.3  | 5-150  |
| d12-Benzo(a)anthracene(ES)     | 200 | 15.74 | 66.8  | 5-150  |
| d12-Chrysene(ES)               | 200 | 15.85 | 69.1  | 5-150  |
| d12-Benzo(b)fluoranthene(ES)   | 200 | 19.07 | 55.6  | 5-150  |
| d12-Benzo(k)fluoranthene(ES)   | 200 | 19.15 | 62.1  | 5-150  |
| d12-Benzo(a)pyrene(ES)         | 200 | 19.95 | 68.9  | 5-150  |
| d12-Perylene(ES)               | 200 | 20.18 | 64.6  | 5-150  |
| d12-Indeno(1,2,3-cd)pyrene(ES) | 200 | 23.38 | 62.8  | 5-150  |
| d14-Dibenz(ah)anthracene(ES)   | 200 | 23.55 | 49.2  | 5-150  |
| d12-Benzo(ghi)perylene(ES)     | 200 | 24.27 | 44.2  | 5-150  |

|   |                                                                                                        |
|---|--------------------------------------------------------------------------------------------------------|
| M | Indicates that a peak has been manually integrated.                                                    |
| U | Indicates that this compound was not detected above the MDL.                                           |
| B | Indicates that this compound was detected in the method blank at greater than 10% of the sample value. |

# ALS Life Sciences

## Sample Analysis Report

|                                                            |                          |                 |           |
|------------------------------------------------------------|--------------------------|-----------------|-----------|
| <b>Sample Name</b>                                         | <b>PLOT 114 - 4 JARS</b> | Sampling Date   | 25-May-24 |
| ALS Sample ID                                              | L2756078-7               | Extraction Date | 26-Jul-24 |
| Analysis Method                                            | PAH by GCMS              |                 |           |
| Analysis Type                                              | sample                   |                 |           |
| Sample Matrix                                              | Tissue                   |                 |           |
| Sample Size                                                | 10.13 g(wwt)             |                 |           |
| Percent Moisture                                           | 71.5%                    |                 |           |
| Split Ratio                                                | 2                        | Workgroup       | WG3789954 |
| Approved:<br>Andrew Reid<br>--e-signature--<br>08-Aug-2024 |                          |                 |           |

|                        |                  |
|------------------------|------------------|
| <b>Run Information</b> | <b>Run 1</b>     |
| Filename               | 24080625.D       |
| Run Date               | 8/6/2024 22:58   |
| Final Volume           | 1 mL             |
| Dilution Factor        | 1                |
| Analysis Units         | ng/g(wwt)        |
| Instrument             | MSD-5            |
| Column                 | HP5MS US2498036H |

| Target Analytes                | Ret. Time | Concentration ng/g(wwt) | Flags |
|--------------------------------|-----------|-------------------------|-------|
| Naphthalene                    | 2.92      | 17.9                    | B     |
| Quinoline                      | 3.20      | 1.33                    |       |
| 2-Methylnaphthalene            | 3.50      | 9.30                    |       |
| 1-Methylnaphthalene            | 3.61      | 4.54                    |       |
| 1,2-Dimethylnaphthalene        | 4.02      | 0.91                    |       |
| 2,6-Dimethylnaphthalene        | 4.22      | 1.31                    | B     |
| 2,3,5-Trimethylnaphthalene     | 5.56      | 0.84                    |       |
| 2,3,6-Trimethylnaphthalene     | 5.40      | <0.39                   | U     |
| 1,4,6,7-Tetramethylnaphthalene | 7.62      | 0.87                    | M     |
| C1-Naphthalenes                | 3.50      | 11.50                   | M B   |
| C2-Naphthalenes                | 4.22      | 5.67                    | M B   |
| C3-Naphthalenes                | 5.42      | 3.20                    | M B   |
| C4-Naphthalenes                | 6.51      | 2.24                    | M B   |
| Biphenyl                       | 4.02      | 0.67                    |       |
| Acenaphthylene                 | 4.59      | <0.39                   | U     |
| Acenaphthene                   | 4.88      | <0.39                   | U     |
| C1-Biphenyl                    | 4.82      | 1.75                    | M B   |
| C2-Biphenyl                    | 5.78      | <0.39                   | U     |
| C1-Acenaphthenes               | 5.56      | 0.49                    |       |
| Fluorene                       | 5.78      | 1.36                    |       |
| 2-Methylfluorene               | 7.06      | 1.41                    | M     |
| 1,7-Dimethylfluorene           | 8.12      | <0.39                   | U     |
| Phenanthrene                   | 7.92      | 4.68                    | B     |
| 3-Methylphenanthrene           | 9.26      | 0.80                    |       |
| 2-Methylphenanthrene           | 9.34      | 1.16                    | M     |
| 9/4-Methylphenanthrene         | 9.51      | <0.39                   | U     |
| 1-Methylphenanthrene           | 9.57      | 0.47                    | M     |
| 2-Methylanthracene             | 9.63      | <0.39                   | U     |
| 1,7-Dimethylphenanthrene       | 10.61     | <0.39                   | U     |
| 1,8-Dimethylphenanthrene       | 10.72     | <0.39                   | U     |
| 2,6-Dimethylphenanthrene       | 10.95     | 0.92                    | M     |
| 3,6-Dimethylphenanthrene       | 11.10     | 1.14                    | M     |
| Retene                         | 13.15     | 1.79                    |       |
| 1,2,6-Trimethylphenanthrene    | 13.35     | <0.39                   | U     |
| Dibenzothiophene               | 7.62      | 0.39                    |       |
| 2/3-Methylbenzothiophene       | 9.02      | <0.39                   | U     |
| 4,6-Dimethyldibenzothiophene   | 9.80      | 4.75                    |       |
| C1-Phenanthrenes/Anthracenes   | 9.34      | 2.80                    | M B   |
| C2-Phenanthrenes/Anthracenes   | 10.72     | 0.71                    | M     |
| C3-Phenanthrenes/Anthracenes   | 12.39     | <0.39                   | U     |
| C4-Phenanthrenes/Anthracenes   | 13.15     | 0.59                    |       |
| C1-Fluorenes                   | 7.06      | 0.91                    | M     |
| C2-Fluorenes                   | 8.12      | <0.39                   | U     |

# ALS Life Sciences

## Sample Analysis Report

**Sample Name** PLOT 114 - 4 JARS  
ALS Sample ID L2756078-7  
Analysis Method PAH by GCMS  
Analysis Type sample  
Sample Matrix Tissue  
Sample Size 10.13 g(wwt)  
Percent Moisture 71.5%  
Split Ratio 2

Sampling Date 25-May-24  
Extraction Date 26-Jul-24

Workgroup WG3789954

Approved:  
Andrew Reid  
--e-signature--  
08-Aug-2024

|                                     |        |       |   |
|-------------------------------------|--------|-------|---|
| C3-Fluorenes                        | 10.72  | <0.39 | U |
| C1-Dibenzothiophenes                | 8.78   | 0.52  | M |
| C2-Dibenzothiophenes                | 9.80   | 5.08  | M |
| C3-Dibenzothiophenes                | 11.21  | <0.39 | U |
| C4-Dibenzothiophenes                | 13.18  | <0.39 | U |
| Anthracene                          | 7.99   | <0.39 | U |
| Fluoranthene                        | 11.28  | 1.35  | B |
| 1-Methylfluoranthene                | 13.05  | <0.39 | U |
| 3-Methylfluoranthene/Benzo(a)fluore | 13.32  | <0.39 | U |
| Pyrene                              | 11.91  | 0.74  |   |
| C1-Fluoranthenes/Pyrenes            | 13.04  | 0.56  | M |
| C2-Fluoranthenes/Pyrenes            | NotFnd | <0.39 | U |
| C3-Fluoranthenes/Pyrenes            | NotFnd | <0.39 | U |
| C4-Fluoranthenes/Pyrenes            | NotFnd | <0.39 | U |
| Benzo(a)anthracene                  | 15.80  | <0.39 | U |
| 7,12-Dimethylbenz(a)anthracene      | NotFnd | <0.39 | U |
| C1-Benz(a)anthracenes/Chrysenes     | NotFnd | <0.39 | U |
| C2-Benz(a)anthracenes/Chrysenes     | NotFnd | <0.39 | U |
| C3-Benz(a)anthracenes/Chrysenes     | NotFnd | <0.39 | U |
| C4-Benz(a)anthracenes/Chrysenes     | NotFnd | <0.39 | U |
| Chrysene/Triphenylene               | 15.91  | 1.03  |   |
| 1-Methylchrysene                    | NotFnd | <0.39 | U |
| 5/6-Methylchrysene                  | NotFnd | <0.39 | U |
| 3,11/5,9-Dimethylchrysene           | NotFnd | <0.39 | U |
| Benzo(b)fluoranthene                | 19.13  | 0.58  |   |
| Benzo(k)fluoranthene                | 19.22  | 1.09  | M |
| Benzo(e)Pyrene                      | NotFnd | <0.39 | U |
| C1-Benzofluoranthenes/BAPs          | NotFnd | <0.39 | U |
| C2-Benzofluoranthenes/BAPs          | NotFnd | <0.39 | U |
| Benzo(a)pyrene                      | NotFnd | <0.39 | U |
| 7-Methylbenzo(a)pyrene              | NotFnd | <0.39 | U |
| Perylene                            | NotFnd | <0.39 | U |
| Indeno(1,2,3-cd)pyrene              | 23.46  | <0.39 | U |
| Dibenz(ah)anthracene                | 23.66  | <0.39 | U |
| Benzo(ghi)perylene                  | 24.37  | <0.39 | U |

| Extraction Standards           | ng        | % Rec | Limits |
|--------------------------------|-----------|-------|--------|
| d8-Naphthalene(ES)             | 200 2.91  | 66.0  | 5-150  |
| d10-2-Methylnaphthalene(ES)    | 200 3.47  | 81.6  | 5-150  |
| d8-Acenaphthylene(ES)          | 200 4.58  | 87.5  | 5-150  |
| d10-Phenanthrene(ES)           | 200 7.87  | 71.0  | 5-150  |
| d10-Anthracene(ES)             | 200 7.99  | 65.0  | 5-150  |
| d10-Fluoranthene(ES)           | 200 11.22 | 71.7  | 5-150  |
| d12-Benzo(a)anthracene(ES)     | 200 15.74 | 62.7  | 5-150  |
| d12-Chrysene(ES)               | 200 15.85 | 65.8  | 5-150  |
| d12-Benzo(b)fluoranthene(ES)   | 200 19.07 | 52.2  | 5-150  |
| d12-Benzo(k)fluoranthene(ES)   | 200 19.15 | 62.8  | 5-150  |
| d12-Benzo(a)pyrene(ES)         | 200 19.95 | 65.5  | 5-150  |
| d12-Perylene(ES)               | 200 20.18 | 63.8  | 5-150  |
| d12-Indeno(1,2,3-cd)pyrene(ES) | 200 23.38 | 69.1  | 5-150  |
| d14-Dibenz(ah)anthracene(ES)   | 200 23.55 | 54.6  | 5-150  |
| d12-Benzo(ghi)perylene(ES)     | 200 24.27 | 46.0  | 5-150  |

M Indicates that a peak has been manually integrated.  
U Indicates that this compound was not detected above the MDL.  
  
B Indicates that this compound was detected in the method blank at greater than 10% of the sample value.



# ALS Life Sciences

## Sample Analysis Report

|                    |                         |                 |           |                                                                                 |
|--------------------|-------------------------|-----------------|-----------|---------------------------------------------------------------------------------|
| <b>Sample Name</b> | <b>PLOT 117 - 1 JAR</b> | Sampling Date   | 25-May-24 | <div>Approved:<br/><i>Andrew Reid</i><br/>--e-signature--<br/>08-Aug-2024</div> |
| ALS Sample ID      | L2756078-8              | Extraction Date | 26-Jul-24 |                                                                                 |
| Analysis Method    | PAH by GCMS             |                 |           |                                                                                 |
| Analysis Type      | sample                  |                 |           |                                                                                 |
| Sample Matrix      | Tissue                  |                 |           |                                                                                 |
| Sample Size        | 1.08 g(wwt)             |                 |           |                                                                                 |
| Percent Moisture   | 70.0%                   |                 |           |                                                                                 |
| Split Ratio        | 2                       | Workgroup       | WG3789954 |                                                                                 |

|                        |                  |
|------------------------|------------------|
| <b>Run Information</b> | <b>Run 1</b>     |
| Filename               | 24080626.D       |
| Run Date               | 8/6/2024 23:36   |
| Final Volume           | 1 mL             |
| Dilution Factor        | 1                |
| Analysis Units         | ng/g(wwt)        |
| Instrument             | MSD-5            |
| Column                 | HP5MS UST530312H |

| Target Analytes                | Ret. Time | Concentration ng/g(wwt) | Flags |
|--------------------------------|-----------|-------------------------|-------|
| Naphthalene                    | 2.93      | 25.3                    |       |
| Quinoline                      | 3.18      | 4.52 M                  |       |
| 2-Methylnaphthalene            | 3.50      | 11.70                   |       |
| 1-Methylnaphthalene            | 3.62      | 5.48                    |       |
| 1,2-Dimethylnaphthalene        | 4.02      | <3.7                    | U     |
| 2,6-Dimethylnaphthalene        | 4.23      | <3.7                    | U     |
| 2,3,5-Trimethylnaphthalene     | 5.56      | <3.7                    | U     |
| 2,3,6-Trimethylnaphthalene     | 5.40      | <3.7                    | U     |
| 1,4,6,7-Tetramethylnaphthalene | NotFnd    | <3.7                    | U     |
| C1-Naphthalenes                | 3.50      | 14.3 M                  |       |
| C2-Naphthalenes                | 4.02      | 12.9 M                  |       |
| C3-Naphthalenes                | 5.44      | 9.59 M                  |       |
| C4-Naphthalenes                | 6.15      | 6.80 M                  | B     |
| Biphenyl                       | 4.02      | <3.7                    | U     |
| Acenaphthylene                 | 4.58      | <3.7                    | U     |
| Acenaphthene                   | 4.88      | <3.7                    | U     |
| C1-Biphenyl                    | 4.82      | 7.91 M                  |       |
| C2-Biphenyl                    | 5.78      | <3.7                    | U     |
| C1-Acenaphthenes               | 5.56      | <3.7                    | U     |
| Fluorene                       | 5.78      | 4.09                    |       |
| 2-Methylfluorene               | 7.06      | 5.56 M                  |       |
| 1,7-Dimethylfluorene           | 8.12      | <3.7                    | U     |
| Phenanthrene                   | 7.92      | 18.1                    |       |
| 3-Methylphenanthrene           | 9.26      | <3.7                    | U     |
| 2-Methylphenanthrene           | 9.34      | 4.00 M                  |       |
| 9/4-Methylphenanthrene         | 9.45      | <3.7                    | U     |
| 1-Methylphenanthrene           | 9.57      | <3.7                    | U     |
| 2-Methylanthracene             | 9.63      | <3.7                    | U     |
| 1,7-Dimethylphenanthrene       | 10.61     | <3.7                    | U     |
| 1,8-Dimethylphenanthrene       | 10.72     | <3.7                    | U     |
| 2,6-Dimethylphenanthrene       | 10.95     | <3.7                    | U     |
| 3,6-Dimethylphenanthrene       | 11.10     | <3.7                    | U     |
| Retene                         | 13.15     | <3.7                    | U     |
| 1,2,6-Trimethylphenanthrene    | 13.35     | <3.7                    | U     |
| Dibenzothiophene               | 7.62      | <3.7                    | U     |
| 2/3-Methylbenzothiophene       | 9.02      | <3.7                    | U     |
| 4,6-Dimethyldibenzothiophene   | 9.80      | <3.7                    | U     |
| C1-Phenanthrenes/Anthracenes   | 9.34      | 9.85 M                  |       |
| C2-Phenanthrenes/Anthracenes   | 10.95     | <3.7                    | U     |
| C3-Phenanthrenes/Anthracenes   | 12.27     | <3.7                    | U     |
| C4-Phenanthrenes/Anthracenes   | 13.15     | <3.7                    | U     |
| C1-Fluorenes                   | 7.06      | <3.7                    | U     |
| C2-Fluorenes                   | 8.12      | <3.7                    | U     |

# ALS Life Sciences

## Sample Analysis Report

|                                                            |                         |                 |           |
|------------------------------------------------------------|-------------------------|-----------------|-----------|
| <b>Sample Name</b>                                         | <b>PLOT 117 - 1 JAR</b> | Sampling Date   | 25-May-24 |
| ALS Sample ID                                              | L2756078-8              | Extraction Date | 26-Jul-24 |
| Analysis Method                                            | PAH by GCMS             |                 |           |
| Analysis Type                                              | sample                  |                 |           |
| Sample Matrix                                              | Tissue                  |                 |           |
| Sample Size                                                | 1.08 g(wwt)             |                 |           |
| Percent Moisture                                           | 70.0%                   |                 |           |
| Split Ratio                                                | 2                       | Workgroup       | WG3789954 |
| Approved:<br>Andrew Reid<br>--e-signature--<br>08-Aug-2024 |                         |                 |           |

|                                     |        |      |   |
|-------------------------------------|--------|------|---|
| C3-Fluorenes                        | 10.72  | <3.7 | U |
| C1-Dibenzothiophenes                | 8.78   | <3.7 | U |
| C2-Dibenzothiophenes                | 9.99   | <3.7 | U |
| C3-Dibenzothiophenes                | 11.07  | <3.7 | U |
| C4-Dibenzothiophenes                | 12.99  | <3.7 | U |
| Anthracene                          | 8.04   | <3.7 | U |
| Fluoranthene                        | 11.28  | 6.07 |   |
| 1-Methylfluoranthene                | 13.09  | <3.7 | U |
| 3-Methylfluoranthene/Benzo(a)fluore | 13.32  | <3.7 | U |
| Pyrene                              | 11.91  | 3.81 |   |
| C1-Fluoranthenes/Pyrenes            | 13.37  | <3.7 | U |
| C2-Fluoranthenes/Pyrenes            | NotFnd | <3.7 | U |
| C3-Fluoranthenes/Pyrenes            | NotFnd | <3.7 | U |
| C4-Fluoranthenes/Pyrenes            | NotFnd | <3.7 | U |
| Benzo(a)anthracene                  | 15.81  | <3.7 | U |
| 7,12-Dimethylbenz(a)anthracene      | NotFnd | <3.7 | U |
| C1-Benz(a)anthracenes/Chrysenes     | NotFnd | <3.7 | U |
| C2-Benz(a)anthracenes/Chrysenes     | NotFnd | <3.7 | U |
| C3-Benz(a)anthracenes/Chrysenes     | NotFnd | <3.7 | U |
| C4-Benz(a)anthracenes/Chrysenes     | NotFnd | <3.7 | U |
| Chrysene/Triphenylene               | 15.91  | <3.7 | U |
| 1-Methylchrysene                    | NotFnd | <3.7 | U |
| 5/6-Methylchrysene                  | NotFnd | <3.7 | U |
| 3,11/5,9-Dimethylchrysene           | NotFnd | <3.7 | U |
| Benzo(b)fluoranthene                | 19.14  | <3.7 | U |
| Benzo(k)fluoranthene                | 19.22  | <3.7 | U |
| Benzo(e)Pyrene                      | NotFnd | <3.7 | U |
| C1-Benzofluoranthenes/BAPs          | NotFnd | <3.7 | U |
| C2-Benzofluoranthenes/BAPs          | NotFnd | <3.7 | U |
| Benzo(a)pyrene                      | NotFnd | <3.7 | U |
| 7-Methylbenzo(a)pyrene              | NotFnd | <3.7 | U |
| Perylene                            | NotFnd | <3.7 | U |
| Indeno(1,2,3-cd)pyrene              | NotFnd | <3.7 | U |
| Dibenz(ah)anthracene                | 23.65  | <3.7 | U |
| Benzo(ghi)perylene                  | 24.37  | <3.7 | U |

| Extraction Standards           | ng        | % Rec | Limits |
|--------------------------------|-----------|-------|--------|
| d8-Naphthalene(ES)             | 200 2.91  | 45.5  | 5-150  |
| d10-2-Methylnaphthalene(ES)    | 200 3.48  | 63.0  | 5-150  |
| d8-Acenaphthylene(ES)          | 200 4.58  | 77.2  | 5-150  |
| d10-Phenanthrene(ES)           | 200 7.87  | 64.9  | 5-150  |
| d10-Anthracene(ES)             | 200 7.99  | 61.2  | 5-150  |
| d10-Fluoranthene(ES)           | 200 11.23 | 60.6  | 5-150  |
| d12-Benzo(a)anthracene(ES)     | 200 15.74 | 60.6  | 5-150  |
| d12-Chrysene(ES)               | 200 15.85 | 68.6  | 5-150  |
| d12-Benzo(b)fluoranthene(ES)   | 200 19.07 | 48.0  | 5-150  |
| d12-Benzo(k)fluoranthene(ES)   | 200 19.15 | 58.0  | 5-150  |
| d12-Benzo(a)pyrene(ES)         | 200 19.95 | 54.2  | 5-150  |
| d12-Perylene(ES)               | 200 20.18 | 60.4  | 5-150  |
| d12-Indeno(1,2,3-cd)pyrene(ES) | 200 23.38 | 62.5  | 5-150  |
| d14-Dibenz(ah)anthracene(ES)   | 200 23.55 | 49.2  | 5-150  |
| d12-Benzo(ghi)perylene(ES)     | 200 24.27 | 40.0  | 5-150  |

|   |                                                                                                        |
|---|--------------------------------------------------------------------------------------------------------|
| M | Indicates that a peak has been manually integrated.                                                    |
| U | Indicates that this compound was not detected above the MDL.                                           |
| B | Indicates that this compound was detected in the method blank at greater than 10% of the sample value. |



# ALS Life Sciences

## Sample Analysis Report

|                                                            |                          |                 |           |
|------------------------------------------------------------|--------------------------|-----------------|-----------|
| <b>Sample Name</b>                                         | <b>PLOT 123 - 3 JARS</b> | Sampling Date   | 25-May-24 |
| ALS Sample ID                                              | L2756078-9               | Extraction Date | 26-Jul-24 |
| Analysis Method                                            | PAH by GCMS              |                 |           |
| Analysis Type                                              | sample                   |                 |           |
| Sample Matrix                                              | Tissue                   |                 |           |
| Sample Size                                                | 10.03 g(wwt)             |                 |           |
| Percent Moisture                                           | 72.1%                    |                 |           |
| Split Ratio                                                | 2                        | Workgroup       | WG3789954 |
| Approved:<br>Andrew Reid<br>--e-signature--<br>08-Aug-2024 |                          |                 |           |

|                        |                  |
|------------------------|------------------|
| <b>Run Information</b> | <b>Run 1</b>     |
| Filename               | 24080627.D       |
| Run Date               | 8/7/2024 0:14    |
| Final Volume           | 1 mL             |
| Dilution Factor        | 1                |
| Analysis Units         | ng/g(wwt)        |
| Instrument             | MSD-5            |
| Column                 | HP5MS UST530312H |

| Target Analytes                | Ret. Time | Concentration ng/g(wwt) | Flags |
|--------------------------------|-----------|-------------------------|-------|
| Naphthalene                    | 2.93      | 13.6                    | B     |
| Quinoline                      | 3.20      | 3.46                    |       |
| 2-Methylnaphthalene            | 3.50      | 7.87                    |       |
| 1-Methylnaphthalene            | 3.61      | 3.75                    |       |
| 1,2-Dimethylnaphthalene        | 4.02      | 1.43                    |       |
| 2,6-Dimethylnaphthalene        | 4.23      | 1.63                    | B     |
| 2,3,5-Trimethylnaphthalene     | 5.56      | 0.87                    |       |
| 2,3,6-Trimethylnaphthalene     | 5.40      | 0.42 M                  |       |
| 1,4,6,7-Tetramethylnaphthalene | 7.74      | 0.76 M                  |       |
| C1-Naphthalenes                | 3.50      | 9.77 M                  |       |
| C2-Naphthalenes                | 4.23      | 7.13 M                  |       |
| C3-Naphthalenes                | 5.44      | 3.12 M                  | B     |
| C4-Naphthalenes                | 6.70      | 2.78 M                  | B     |
| Biphenyl                       | 4.02      | 0.89                    |       |
| Acenaphthylene                 | 4.59      | <0.4                    | U     |
| Acenaphthene                   | 4.88      | <0.4                    | U     |
| C1-Biphenyl                    | 4.82      | 1.93 M                  | B     |
| C2-Biphenyl                    | 5.89      | 0.64 M                  |       |
| C1-Acenaphthenes               | 5.56      | 0.46                    |       |
| Fluorene                       | 5.78      | 1.05                    |       |
| 2-Methylfluorene               | 7.06      | 1.21 M                  |       |
| 1,7-Dimethylfluorene           | 8.13      | <0.4                    | U     |
| Phenanthrene                   | 7.92      | 3.92                    | B     |
| 3-Methylphenanthrene           | 9.26      | 0.86 M                  |       |
| 2-Methylphenanthrene           | 9.34      | 1.12 M                  |       |
| 9/4-Methylphenanthrene         | 9.49      | <0.4                    | U     |
| 1-Methylphenanthrene           | 9.57      | <0.4                    | U     |
| 2-Methylanthracene             | 9.63      | <0.4                    | U     |
| 1,7-Dimethylphenanthrene       | 10.61     | <0.4                    | U     |
| 1,8-Dimethylphenanthrene       | 10.72     | <0.4                    | U     |
| 2,6-Dimethylphenanthrene       | 10.94     | 1.13 M                  |       |
| 3,6-Dimethylphenanthrene       | 11.10     | 1.07 M                  |       |
| Retene                         | 13.15     | 2.14                    |       |
| 1,2,6-Trimethylphenanthrene    | 13.35     | <0.4                    | U     |
| Dibenzothiophene               | 7.62      | <0.4                    | U     |
| 2/3-Methylbenzothiophene       | 9.02      | <0.4                    | U     |
| 4,6-Dimethyldibenzothiophene   | 9.80      | 14.3                    |       |
| C1-Phenanthrenes/Anthracenes   | 9.34      | 3.16 M                  | B     |
| C2-Phenanthrenes/Anthracenes   | 11.10     | 1.29 M                  |       |
| C3-Phenanthrenes/Anthracenes   | 12.31     | <0.4                    | U     |
| C4-Phenanthrenes/Anthracenes   | 13.15     | 0.71                    |       |
| C1-Fluorenes                   | 7.06      | 0.80 M                  |       |
| C2-Fluorenes                   | 8.00      | <0.4                    | U     |

# ALS Life Sciences

## Sample Analysis Report

|                  |                   |        |                 |           |                                                                          |
|------------------|-------------------|--------|-----------------|-----------|--------------------------------------------------------------------------|
| Sample Name      | PLOT 123 - 3 JARS |        | Sampling Date   | 25-May-24 | <div>Approved:<br/>Andrew Reid<br/>--e-signature--<br/>08-Aug-2024</div> |
| ALS Sample ID    | L2756078-9        |        | Extraction Date | 26-Jul-24 |                                                                          |
| Analysis Method  | PAH by GCMS       |        |                 |           |                                                                          |
| Analysis Type    | sample            |        |                 |           |                                                                          |
| Sample Matrix    | Tissue            |        |                 |           |                                                                          |
| Sample Size      | 10.03             | g(wwt) |                 |           |                                                                          |
| Percent Moisture | 72.1%             |        |                 |           |                                                                          |
| Split Ratio      | 2                 |        | Workgroup       | WG3789954 |                                                                          |

|                                     |        |      |   |
|-------------------------------------|--------|------|---|
| C3-Fluorenes                        | 10.72  | <0.4 | U |
| C1-Dibenzothiophenes                | 8.78   | 0.83 | M |
| C2-Dibenzothiophenes                | 9.80   | 16.8 | M |
| C3-Dibenzothiophenes                | 11.38  | <0.4 | U |
| C4-Dibenzothiophenes                | 13.15  | <0.4 | U |
| Anthracene                          | 8.04   | <0.4 | U |
| Fluoranthene                        | 11.28  | 1.16 | B |
| 1-Methylfluoranthene                | 13.07  | <0.4 | U |
| 3-Methylfluoranthene/Benzo(a)fluore | 13.32  | <0.4 | U |
| Pyrene                              | 11.91  | 0.69 |   |
| C1-Fluoranthenes/Pyrenes            | 13.07  | 0.74 | M |
| C2-Fluoranthenes/Pyrenes            | NotFnd | <0.4 | U |
| C3-Fluoranthenes/Pyrenes            | NotFnd | <0.4 | U |
| C4-Fluoranthenes/Pyrenes            | NotFnd | <0.4 | U |
| Benzo(a)anthracene                  | 15.81  | <0.4 | U |
| 7,12-Dimethylbenz(a)anthracene      | NotFnd | <0.4 | U |
| C1-Benz(a)anthracenes/Chrysenes     | NotFnd | <0.4 | U |
| C2-Benz(a)anthracenes/Chrysenes     | NotFnd | <0.4 | U |
| C3-Benz(a)anthracenes/Chrysenes     | NotFnd | <0.4 | U |
| C4-Benz(a)anthracenes/Chrysenes     | NotFnd | <0.4 | U |
| Chrysene/Triphenylene               | 15.91  | 1.74 |   |
| 1-Methylchrysene                    | NotFnd | <0.4 | U |
| 5/6-Methylchrysene                  | NotFnd | <0.4 | U |
| 3,11/5,9-Dimethylchrysene           | NotFnd | <0.4 | U |
| Benzo(b)fluoranthene                | 19.13  | 0.76 | M |
| Benzo(k)fluoranthene                | 19.22  | 0.92 | M |
| Benzo(e)Pyrene                      | NotFnd | <0.4 | U |
| C1-Benzofluoranthenes/BAPs          | NotFnd | <0.4 | U |
| C2-Benzofluoranthenes/BAPs          | NotFnd | <0.4 | U |
| Benzo(a)pyrene                      | NotFnd | <0.4 | U |
| 7-Methylbenzo(a)pyrene              | NotFnd | <0.4 | U |
| Perylene                            | NotFnd | <0.4 | U |
| Indeno(1,2,3-cd)pyrene              | 23.46  | <0.4 | U |
| Dibenz(ah)anthracene                | 23.66  | <0.4 | U |
| Benzo(ghi)perylene                  | 24.37  | <0.4 | U |

| Extraction Standards           | ng  |       | % Rec | Limits |
|--------------------------------|-----|-------|-------|--------|
| d8-Naphthalene(ES)             | 200 | 2.91  | 45.6  | 5-150  |
| d10-2-Methylnaphthalene(ES)    | 200 | 3.48  | 60.1  | 5-150  |
| d8-Acenaphthylene(ES)          | 200 | 4.58  | 75.5  | 5-150  |
| d10-Phenanthrene(ES)           | 200 | 7.87  | 65.4  | 5-150  |
| d10-Anthracene(ES)             | 200 | 7.99  | 60.2  | 5-150  |
| d10-Fluoranthene(ES)           | 200 | 11.22 | 70.2  | 5-150  |
| d12-Benzo(a)anthracene(ES)     | 200 | 15.74 | 68.3  | 5-150  |
| d12-Chrysene(ES)               | 200 | 15.85 | 67.5  | 5-150  |
| d12-Benzo(b)fluoranthene(ES)   | 200 | 19.07 | 59.6  | 5-150  |
| d12-Benzo(k)fluoranthene(ES)   | 200 | 19.15 | 70.7  | 5-150  |
| d12-Benzo(a)pyrene(ES)         | 200 | 19.95 | 70.9  | 5-150  |
| d12-Perylene(ES)               | 200 | 20.18 | 63.2  | 5-150  |
| d12-Indeno(1,2,3-cd)pyrene(ES) | 200 | 23.38 | 63.2  | 5-150  |
| d14-Dibenz(ah)anthracene(ES)   | 200 | 23.55 | 49.3  | 5-150  |
| d12-Benzo(ghi)perylene(ES)     | 200 | 24.27 | 38.1  | 5-150  |

|   |                                                                                                        |
|---|--------------------------------------------------------------------------------------------------------|
| M | Indicates that a peak has been manually integrated.                                                    |
| U | Indicates that this compound was not detected above the MDL.                                           |
| B | Indicates that this compound was detected in the method blank at greater than 10% of the sample value. |

# ALS Life Sciences

## Sample Analysis Report

|                                                            |                          |                 |           |
|------------------------------------------------------------|--------------------------|-----------------|-----------|
| <b>Sample Name</b>                                         | <b>PLOT 402 - 6 JARS</b> | Sampling Date   | 25-May-24 |
| ALS Sample ID                                              | L2756078-10              | Extraction Date | 26-Jul-24 |
| Analysis Method                                            | PAH by GCMS              |                 |           |
| Analysis Type                                              | sample                   |                 |           |
| Sample Matrix                                              | Tissue                   |                 |           |
| Sample Size                                                | 10.18 g(wwt)             |                 |           |
| Percent Moisture                                           | 72.7%                    |                 |           |
| Split Ratio                                                | 2                        | Workgroup       | WG3789954 |
| Approved:<br>Andrew Reid<br>--e-signature--<br>08-Aug-2024 |                          |                 |           |

|                        |                  |
|------------------------|------------------|
| <b>Run Information</b> | <b>Run 1</b>     |
| Filename               | 24080628.D       |
| Run Date               | 8/7/2024 0:51    |
| Final Volume           | 1 mL             |
| Dilution Factor        | 1                |
| Analysis Units         | ng/g(wwt)        |
| Instrument             | MSD-5            |
| Column                 | HP5MS UST530312H |

| Target Analytes                | Ret. Time | Concentration ng/g(wwt) | Flags |
|--------------------------------|-----------|-------------------------|-------|
| Naphthalene                    | 2.93      | 4.27                    | B     |
| Quinoline                      | NotFnd    | <0.39                   | U     |
| 2-Methylnaphthalene            | 3.51      | 2.73                    | B     |
| 1-Methylnaphthalene            | 3.61      | 1.29                    |       |
| 1,2-Dimethylnaphthalene        | 4.02      | 0.77 M                  |       |
| 2,6-Dimethylnaphthalene        | 4.23      | 0.68                    | B     |
| 2,3,5-Trimethylnaphthalene     | 5.56      | 0.39 M                  |       |
| 2,3,6-Trimethylnaphthalene     | 5.40      | <0.39                   | U     |
| 1,4,6,7-Tetramethylnaphthalene | NotFnd    | <0.39                   | U     |
| C1-Naphthalenes                | 3.51      | 3.44 M                  | B     |
| C2-Naphthalenes                | 4.02      | 3.19 M                  | B     |
| C3-Naphthalenes                | 5.44      | 1.63 M                  | B     |
| C4-Naphthalenes                | 6.15      | 1.02 M                  | B     |
| Biphenyl                       | 4.02      | 0.47                    |       |
| Acenaphthylene                 | 4.59      | <0.39                   | U     |
| Acenaphthene                   | 4.88      | <0.39                   | U     |
| C1-Biphenyl                    | 4.82      | 1.29 M                  | B     |
| C2-Biphenyl                    | 5.78      | 0.31 M                  |       |
| C1-Acenaphthenes               | 5.56      | <0.39                   | U     |
| Fluorene                       | 5.78      | 0.94                    |       |
| 2-Methylfluorene               | 7.06      | 1.27 M                  |       |
| 1,7-Dimethylfluorene           | 8.12      | <0.39                   | U     |
| Phenanthrene                   | 7.92      | 3.28                    | B     |
| 3-Methylphenanthrene           | 9.26      | 0.68 M                  |       |
| 2-Methylphenanthrene           | 9.34      | 0.88 M                  |       |
| 9/4-Methylphenanthrene         | 9.45      | <0.39                   | U     |
| 1-Methylphenanthrene           | 9.57      | 0.40 M                  |       |
| 2-Methylanthracene             | 9.64      | <0.39                   | U     |
| 1,7-Dimethylphenanthrene       | 10.61     | <0.39                   | U     |
| 1,8-Dimethylphenanthrene       | 10.72     | <0.39                   | U     |
| 2,6-Dimethylphenanthrene       | 10.95     | 0.61 M                  |       |
| 3,6-Dimethylphenanthrene       | 11.10     | 0.85 M                  |       |
| Retene                         | 13.15     | 1.36                    |       |
| 1,2,6-Trimethylphenanthrene    | 13.35     | <0.39                   | U     |
| Dibenzothiophene               | 7.62      | <0.39                   | U     |
| 2/3-Methylbenzothiophene       | 9.02      | <0.39                   | U     |
| 4,6-Dimethyldibenzothiophene   | 9.80      | <0.39                   | U     |
| C1-Phenanthrenes/Anthracenes   | 9.34      | 2.55 M                  | B     |
| C2-Phenanthrenes/Anthracenes   | 11.10     | 0.71 M                  |       |
| C3-Phenanthrenes/Anthracenes   | 12.40     | <0.39                   | U     |
| C4-Phenanthrenes/Anthracenes   | 13.15     | 0.45                    |       |
| C1-Fluorenes                   | 7.06      | 0.72 M                  |       |
| C2-Fluorenes                   | 8.00      | <0.39                   | U     |

# ALS Life Sciences

## Sample Analysis Report

|                  |                   |        |                 |                                                            |
|------------------|-------------------|--------|-----------------|------------------------------------------------------------|
| Sample Name      | PLOT 402 - 6 JARS |        | Sampling Date   | 25-May-24                                                  |
| ALS Sample ID    | L2756078-10       |        | Extraction Date | 26-Jul-24                                                  |
| Analysis Method  | PAH by GCMS       |        |                 |                                                            |
| Analysis Type    | sample            |        |                 |                                                            |
| Sample Matrix    | Tissue            |        |                 |                                                            |
| Sample Size      | 10.18             | g(wwt) |                 |                                                            |
| Percent Moisture | 72.7%             |        |                 |                                                            |
| Split Ratio      | 2                 |        | Workgroup       | WG3789954                                                  |
|                  |                   |        |                 | Approved:<br>Andrew Reid<br>--e-signature--<br>08-Aug-2024 |

|                                     |        |       |   |
|-------------------------------------|--------|-------|---|
| C3-Fluorenes                        | 10.95  | <0.39 | U |
| C1-Dibenzothiophenes                | 8.78   | 0.41  | M |
| C2-Dibenzothiophenes                | 9.98   | <0.39 | U |
| C3-Dibenzothiophenes                | 11.07  | 0.57  | M |
| C4-Dibenzothiophenes                | 12.98  | <0.39 | U |
| Anthracene                          | 8.04   | <0.39 | U |
| Fluoranthene                        | 11.28  | 1.06  | B |
| 1-Methylfluoranthene                | 13.09  | <0.39 | U |
| 3-Methylfluoranthene/Benzo(a)fluore | 13.31  | <0.39 | U |
| Pyrene                              | 11.91  | 0.69  |   |
| C1-Fluoranthenes/Pyrenes            | 13.37  | <0.39 | U |
| C2-Fluoranthenes/Pyrenes            | NotFnd | <0.39 | U |
| C3-Fluoranthenes/Pyrenes            | NotFnd | <0.39 | U |
| C4-Fluoranthenes/Pyrenes            | NotFnd | <0.39 | U |
| Benzo(a)anthracene                  | 15.80  | <0.39 | U |
| 7,12-Dimethylbenz(a)anthracene      | NotFnd | <0.39 | U |
| C1-Benz(a)anthracenes/Chrysenes     | NotFnd | <0.39 | U |
| C2-Benz(a)anthracenes/Chrysenes     | NotFnd | <0.39 | U |
| C3-Benz(a)anthracenes/Chrysenes     | NotFnd | <0.39 | U |
| C4-Benz(a)anthracenes/Chrysenes     | NotFnd | <0.39 | U |
| Chrysene/Triphenylene               | 15.91  | 0.68  |   |
| 1-Methylchrysene                    | NotFnd | <0.39 | U |
| 5/6-Methylchrysene                  | NotFnd | <0.39 | U |
| 3,11/5,9-Dimethylchrysene           | NotFnd | <0.39 | U |
| Benzo(b)fluoranthene                | 19.14  | <0.39 | U |
| Benzo(k)fluoranthene                | 19.21  | <0.39 | U |
| Benzo(e)Pyrene                      | 19.88  | <0.39 | U |
| C1-Benzofluoranthenes/BAPs          | NotFnd | <0.39 | U |
| C2-Benzofluoranthenes/BAPs          | NotFnd | <0.39 | U |
| Benzo(a)pyrene                      | 20.01  | <0.39 | U |
| 7-Methylbenzo(a)pyrene              | NotFnd | <0.39 | U |
| Perylene                            | NotFnd | <0.39 | U |
| Indeno(1,2,3-cd)pyrene              | 23.46  | <0.39 | U |
| Dibenz(ah)anthracene                | 23.65  | <0.39 | U |
| Benzo(ghi)perylene                  | 24.36  | <0.39 | U |

| Extraction Standards           | ng  |       | % Rec | Limits |
|--------------------------------|-----|-------|-------|--------|
| d8-Naphthalene(ES)             | 200 | 2.91  | 52.2  | 5-150  |
| d10-2-Methylnaphthalene(ES)    | 200 | 3.48  | 68.1  | 5-150  |
| d8-Acenaphthylene(ES)          | 200 | 4.58  | 83.7  | 5-150  |
| d10-Phenanthrene(ES)           | 200 | 7.87  | 59.6  | 5-150  |
| d10-Anthracene(ES)             | 200 | 7.99  | 53.6  | 5-150  |
| d10-Fluoranthene(ES)           | 200 | 11.22 | 57.6  | 5-150  |
| d12-Benzo(a)anthracene(ES)     | 200 | 15.74 | 63.0  | 5-150  |
| d12-Chrysene(ES)               | 200 | 15.85 | 67.6  | 5-150  |
| d12-Benzo(b)fluoranthene(ES)   | 200 | 19.07 | 50.6  | 5-150  |
| d12-Benzo(k)fluoranthene(ES)   | 200 | 19.15 | 60.3  | 5-150  |
| d12-Benzo(a)pyrene(ES)         | 200 | 19.95 | 58.4  | 5-150  |
| d12-Perylene(ES)               | 200 | 20.18 | 62.4  | 5-150  |
| d12-Indeno(1,2,3-cd)pyrene(ES) | 200 | 23.38 | 58.8  | 5-150  |
| d14-Dibenz(ah)anthracene(ES)   | 200 | 23.55 | 46.6  | 5-150  |
| d12-Benzo(ghi)perylene(ES)     | 200 | 24.27 | 34.6  | 5-150  |

|   |                                                                                                        |
|---|--------------------------------------------------------------------------------------------------------|
| M | Indicates that a peak has been manually integrated.                                                    |
| U | Indicates that this compound was not detected above the MDL.                                           |
| B | Indicates that this compound was detected in the method blank at greater than 10% of the sample value. |

# ALS Life Sciences

## Laboratory Control Sample Analysis Report

|                                                            |                                  |                 |           |
|------------------------------------------------------------|----------------------------------|-----------------|-----------|
| <b>Sample Name</b>                                         | <b>Laboratory Control Sample</b> | Sampling Date   | 25-May-24 |
| ALS Sample ID                                              | WG3789954-2                      | Extraction Date | 26-Jul-24 |
| Analysis Method                                            | PAH by GCMS                      |                 |           |
| Analysis Type                                              | LCS                              |                 |           |
| Sample Matrix                                              | Tissue                           |                 |           |
| Sample Size                                                | 1 g(wwt)                         |                 |           |
| Percent Moisture                                           | n/a                              |                 |           |
| Split Ratio                                                | 2                                | Workgroup       | WG3789954 |
| Approved:<br>Andrew Reid<br>--e-signature--<br>08-Aug-2024 |                                  |                 |           |

|                        |                  |
|------------------------|------------------|
| <b>Run Information</b> | <b>Run 1</b>     |
| Filename               | 24080612.D       |
| Run Date               | 8/6/2024 14:49   |
| Final Volume           | 1 mL             |
| Dilution Factor        | 1                |
| Analysis Units         | ng/g(wwt)        |
| Instrument             | MSD-5            |
| Column                 | HP5MS UST530312H |

| Target Analytes                | ng spiked | Ret. Time | % Rec | Flags | Limits |
|--------------------------------|-----------|-----------|-------|-------|--------|
| Naphthalene                    | 200       | 2.91      | 99    |       | 50-150 |
| Quinoline                      |           |           |       |       |        |
| 2-Methylnaphthalene            | 200       | 3.49      | 84    |       | 50-150 |
| 1-Methylnaphthalene            | 200       | 3.60      | 84    |       | 50-150 |
| 1,2-Dimethylnaphthalene        |           |           |       |       |        |
| 2,6-Dimethylnaphthalene        | 200       | 4.21      | 85    |       | 50-150 |
| 2,3,5-Trimethylnaphthalene     | 200       | 5.56      | 85    |       | 50-150 |
| 2,3,6-Trimethylnaphthalene     |           |           |       |       |        |
| 1,4,6,7-Tetramethylnaphthalene |           |           |       |       |        |
| C1-Naphthalenes                |           |           |       |       |        |
| C2-Naphthalenes                |           |           |       |       |        |
| C3-Naphthalenes                |           |           |       |       |        |
| C4-Naphthalenes                |           |           |       |       |        |
| Biphenyl                       | 200       | 4.01      | 81    |       | 50-150 |
| Acenaphthylene                 | 200       | 4.59      | 76    |       | 50-150 |
| Acenaphthene                   | 200       | 4.88      | 72    |       | 50-150 |
| C1-Biphenyl                    |           |           |       |       |        |
| C2-Biphenyl                    |           |           |       |       |        |
| C1-Acenaphthenes               |           |           |       |       |        |
| Fluorene                       | 200       | 5.78      | 88    |       | 50-150 |
| 2-Methylfluorene               |           |           |       |       |        |
| 1,7-Dimethylfluorene           |           |           |       |       |        |
| Phenanthrene                   | 200       | 7.92      | 86    |       | 50-150 |
| 3-Methylphenanthrene           |           |           |       |       |        |
| 2-Methylphenanthrene           |           |           |       |       |        |
| 9/4-Methylphenanthrene         |           |           |       |       |        |
| 1-Methylphenanthrene           | 200       | 9.63      | 89    |       | 50-150 |
| 2-Methylanthracene             |           |           |       |       |        |
| 1,7-Dimethylphenanthrene       |           |           |       |       |        |
| 1,8-Dimethylphenanthrene       |           |           |       |       |        |
| 2,6-Dimethylphenanthrene       |           |           |       |       |        |
| 3,6-Dimethylphenanthrene       |           |           |       |       |        |
| Retene                         |           |           |       |       |        |
| 1,2,6-Trimethylphenanthrene    |           |           |       |       |        |
| Dibenzothiophene               | 200       | 7.62      | 70    |       | 50-150 |
| 2/3-Methylbenzothiophene       |           |           |       |       |        |
| 4,6-Dimethyldibenzothiophene   |           |           |       |       |        |
| C1-Phenanthrenes/Anthracenes   |           |           |       |       |        |
| C2-Phenanthrenes/Anthracenes   |           |           |       |       |        |
| C3-Phenanthrenes/Anthracenes   |           |           |       |       |        |
| C4-Phenanthrenes/Anthracenes   |           |           |       |       |        |
| C1-Fluorenes                   |           |           |       |       |        |
| C2-Fluorenes                   |           |           |       |       |        |

# ALS Life Sciences

## Laboratory Control Sample Analysis Report

|                  |                           |        |                 |                                                            |
|------------------|---------------------------|--------|-----------------|------------------------------------------------------------|
| Sample Name      | Laboratory Control Sample |        | Sampling Date   | 25-May-24                                                  |
| ALS Sample ID    | WG3789954-2               |        | Extraction Date | 26-Jul-24                                                  |
| Analysis Method  | PAH by GCMS               |        |                 |                                                            |
| Analysis Type    | LCS                       |        |                 |                                                            |
| Sample Matrix    | Tissue                    |        |                 |                                                            |
| Sample Size      | 1                         | g(wwt) |                 |                                                            |
| Percent Moisture | n/a                       |        |                 |                                                            |
| Split Ratio      | 2                         |        | Workgroup       | WG3789954                                                  |
|                  |                           |        |                 | Approved:<br>Andrew Reid<br>--e-signature--<br>08-Aug-2024 |

|                                       |     |       |    |        |
|---------------------------------------|-----|-------|----|--------|
| C3-Fluorenes                          |     |       |    |        |
| C1-Dibenzothiophenes                  |     |       |    |        |
| C2-Dibenzothiophenes                  |     |       |    |        |
| C3-Dibenzothiophenes                  |     |       |    |        |
| C4-Dibenzothiophenes                  |     |       |    |        |
| Anthracene                            | 200 | 8.04  | 78 | 50-150 |
| Fluoranthene                          | 200 | 11.28 | 80 | 50-150 |
| 1-Methylfluoranthene                  |     |       |    |        |
| 3-Methylfluoranthene/Benzo(a)fluorene |     |       |    |        |
| Pyrene                                | 200 | 11.91 | 76 | 50-150 |
| C1-Fluoranthenes/Pyrenes              |     |       |    |        |
| C2-Fluoranthenes/Pyrenes              |     |       |    |        |
| C3-Fluoranthenes/Pyrenes              |     |       |    |        |
| C4-Fluoranthenes/Pyrenes              |     |       |    |        |
| Benzo(a)anthracene                    | 200 | 15.80 | 79 | 50-150 |
| 7,12-Dimethylbenz(a)anthracene        |     |       |    |        |
| C1-Benz(a)anthracenes/Chrysenes       |     |       |    |        |
| C2-Benz(a)anthracenes/Chrysenes       |     |       |    |        |
| C3-Benz(a)anthracenes/Chrysenes       |     |       |    |        |
| C4-Benz(a)anthracenes/Chrysenes       |     |       |    |        |
| Chrysene/Triphenylene                 | 200 | 15.93 | 84 | 50-150 |
| 1-Methylchrysene                      |     |       |    |        |
| 5/6-Methylchrysene                    |     |       |    |        |
| 3,11/5,9-Dimethylchrysene             |     |       |    |        |
| Benzo(b)fluoranthene                  | 200 | 19.13 | 78 | 50-150 |
| Benzo(k)fluoranthene                  | 200 | 19.21 | 81 | 50-150 |
| Benzo(e)Pyrene                        | 200 | 19.88 | 91 | 50-150 |
| C1-Benzofluoranthenes/BAPs            |     |       |    |        |
| C2-Benzofluoranthenes/BAPs            |     |       |    |        |
| Benzo(a)pyrene                        | 200 | 20.01 | 79 | 50-150 |
| 7-Methylbenzo(a)pyrene                |     |       |    |        |
| Perylene                              | 200 | 20.25 | 64 | 50-150 |
| Indeno(1,2,3-cd)pyrene                | 200 | 23.46 | 75 | 50-150 |
| Dibenz(ah)anthracene                  | 200 | 23.66 | 79 | 50-150 |
| Benzo(ghi)perylene                    | 200 | 24.37 | 83 | 50-150 |

| Extraction Standards           |     |       | % Rec | Limits |
|--------------------------------|-----|-------|-------|--------|
| d8-Naphthalene(ES)             | 200 | 2.90  | 69.7  | 10-150 |
| d10-2-Methylnaphthalene(ES)    | 200 | 3.46  | 80.2  | 10-150 |
| d8-Acenaphthylene(ES)          | 200 | 4.57  | 81.7  | 10-150 |
| d10-Phenanthrene(ES)           | 200 | 7.87  | 59.3  | 10-150 |
| d10-Anthracene(ES)             | 200 | 7.99  | 58.0  | 10-150 |
| d10-Fluoranthene(ES)           | 200 | 11.22 | 61.3  | 10-150 |
| d12-Benzo(a)anthracene(ES)     | 200 | 15.74 | 82.7  | 10-150 |
| d12-Chrysene(ES)               | 200 | 15.85 | 80.1  | 10-150 |
| d12-Benzo(b)fluoranthene(ES)   | 200 | 19.07 | 65.8  | 10-150 |
| d12-Benzo(k)fluoranthene(ES)   | 200 | 19.15 | 78.5  | 10-150 |
| d12-Benzo(a)pyrene(ES)         | 200 | 19.95 | 87.6  | 10-150 |
| d12-Perylene(ES)               | 200 | 20.19 | 72.2  | 10-150 |
| d12-Indeno(1,2,3-cd)pyrene(ES) | 200 | 23.39 | 80.3  | 10-150 |
| d14-Dibenz(ah)anthracene(ES)   | 200 | 23.55 | 60.4  | 10-150 |
| d12-Benzo(ghi)perylene(ES)     | 200 | 24.27 | 61.2  | 10-150 |

M Indicates that a peak has been manually integrated.





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## Certificate of Analysis

**ALS Project Contact:** Dana Brown  
**ALS Project ID:** 24593  
**ALS WO#:** L2756078  
**Date of Report:** 16-Aug-24  
**Date of Sample Receipt:** 5-Jun-24

**Client Name:** Wildland Management Consultants Ltd.  
**Client Address:** 50345 Range Road 222  
Leduc County, AB  
T0B 3M2  
**Client Contact:** Lawrence Brusnyk  
**Client Project ID:** SHTC 11-086

**COMMENTS:** PCDD/F by EPA 1613B via Isotope Dilution

Certified by:

A handwritten signature in black ink, appearing to read "Jin", is written over a horizontal line.

Sabrina Jin  
Technical Specialist

Results in this certificate relate only to the samples as submitted to the laboratory.

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| ALS Life Sciences                        |                 |              |                  |                  |                  |                   |
|------------------------------------------|-----------------|--------------|------------------|------------------|------------------|-------------------|
| Sample Analysis Summary Report           |                 |              |                  |                  |                  |                   |
| Sample Name                              | PLOT 4 - 6 JARS | Duplicate    | PLOT 11 - 4 JARS | PLOT 70 - 3 JARS | PLOT 71 - 5 JARS | PLOT 109 - 5 JARS |
| ALS Sample ID                            | L2756078-1      | WG3789754-5  | L2756078-2       | L2756078-3       | L2756078-4       | L2756078-5        |
| Sample Size                              | 2.85            | 2.87         | 3.00             | 2.93             | 2.77             | 2.89              |
| Sample size units                        | g               | g            | g                | g                | g                | g                 |
| Percent Moisture                         | 72.00%          | 72.00%       | 70.94%           | 70.85%           | 72.61%           | 71.90%            |
| Sample Matrix                            | Tissue          | QC           | Tissue           | Tissue           | Tissue           | Tissue            |
| Sampling Date                            | 25-May-24       | n/a          | 25-May-24        | 25-May-24        | 25-May-24        | 25-May-24         |
| Extraction Date                          | 6-Jul-24        | 6-Jul-24     | 6-Jul-24         | 6-Jul-24         | 6-Jul-24         | 6-Jul-24          |
| <b>Target Analytes</b>                   | <b>pg/g</b>     | <b>pg/g</b>  | <b>pg/g</b>      | <b>pg/g</b>      | <b>pg/g</b>      | <b>pg/g</b>       |
| 2,3,7,8-TCDD                             | 0.808           | <0.66        | 0.283            | <0.82            | 0.240            | 0.439             |
| 1,2,3,7,8-PeCDD                          | 6.51            | 6.29         | 2.59             | 5.46             | 1.68             | 3.63              |
| 1,2,3,4,7,8-HxCDD                        | 2.83            | 3.47         | <1.0             | 1.81             | <0.58            | 1.80              |
| 1,2,3,6,7,8-HxCDD                        | 5.28            | 5.76         | 1.90             | 3.00             | <1.0             | <3.1              |
| 1,2,3,7,8,9-HxCDD                        | <2.4            | 3.05         | 0.828            | <1.3             | <0.68            | <1.7              |
| 1,2,3,4,6,7,8-HpCDD                      | 12.9            | 13.2         | <2.6             | 4.86             | 2.63             | 6.74              |
| OCDD                                     | 15.3            | 15.8         | 4.43             | 5.12             | <2.4             | 6.15              |
| 2,3,7,8-TCDF                             | 47.3            | 48.3         | <6.9             | 1.32             | <0.34            | 21.6              |
| 1,2,3,7,8-PeCDF                          | 17.7            | 16.9         | 4.61             | <1.4             | 0.774            | 13.6              |
| 2,3,4,7,8-PeCDF                          | 46.1            | 48.8         | 9.05             | 1.47             | <0.57            | 24.4              |
| 1,2,3,4,7,8-HxCDF                        | 6.59            | 6.71         | <2.2             | <0.75            | <0.34            | 5.16              |
| 1,2,3,6,7,8-HxCDF                        | 7.95            | 7.78         | 2.87             | <1.0             | 0.473            | 5.32              |
| 2,3,4,6,7,8-HxCDF                        | 15.9            | 16.8         | 2.62             | <0.41            | <0.33            | 9.55              |
| 1,2,3,7,8,9-HxCDF                        | <0.27           | <0.74        | <0.23            | <0.23            | 0.279            | <0.27             |
| 1,2,3,4,6,7,8-HpCDF                      | 10.5            | 11.3         | 2.02             | 1.25             | <0.57            | 6.83              |
| 1,2,3,4,7,8,9-HpCDF                      | <1.0            | 1.21         | 0.344            | <0.24            | <0.46            | <0.56             |
| OCDF                                     | <2.3            | <3.0         | <0.72            | 0.327            | <0.30            | <1.4              |
| <b>Extraction Standards</b>              | <b>% Rec</b>    | <b>% Rec</b> | <b>% Rec</b>     | <b>% Rec</b>     | <b>% Rec</b>     | <b>% Rec</b>      |
| 13C12-2,3,7,8-TCDD                       | 74              | 74           | 55               | 76               | 73               | 62                |
| 13C12-1,2,3,7,8-PeCDD                    | 75              | 80           | 58               | 78               | 68               | 65                |
| 13C12-1,2,3,4,7,8-HxCDD                  | 84              | 90           | 63               | 86               | 83               | 71                |
| 13C12-1,2,3,6,7,8-HxCDD                  | 81              | 87           | 65               | 85               | 82               | 70                |
| 13C12-1,2,3,4,6,7,8-HpCDD                | 85              | 98           | 67               | 94               | 90               | 76                |
| 13C12-OCDD                               | 79              | 96           | 64               | 91               | 91               | 72                |
| 13C12-2,3,7,8-TCDF                       | 74              | 74           | 54               | 72               | 66               | 60                |
| 13C12-1,2,3,7,8-PeCDF                    | 70              | 73           | 54               | 72               | 64               | 59                |
| 13C12-2,3,4,7,8-PeCDF                    | 80              | 83           | 60               | 82               | 70               | 67                |
| 13C12-1,2,3,4,7,8-HxCDF                  | 86              | 93           | 65               | 89               | 83               | 70                |
| 13C12-1,2,3,6,7,8-HxCDF                  | 81              | 83           | 58               | 74               | 80               | 64                |
| 13C12-2,3,4,6,7,8-HxCDF                  | 81              | 91           | 64               | 88               | 84               | 70                |
| 13C12-1,2,3,7,8,9-HxCDF                  | 87              | 101          | 70               | 95               | 94               | 76                |
| 13C12-1,2,3,4,6,7,8-HpCDF                | 88              | 101          | 70               | 95               | 91               | 76                |
| 13C12-1,2,3,4,7,8,9-HpCDF                | 87              | 101          | 69               | 97               | 94               | 75                |
| <b>Cleanup Standard</b>                  |                 |              |                  |                  |                  |                   |
| 37Cl4-2,3,7,8-TCDD (Cleanup)             | 61              | 71           | 47               | 60               | 60               | 64                |
| <b>Homologue Group Totals</b>            | <b>pg/g</b>     | <b>pg/g</b>  | <b>pg/g</b>      | <b>pg/g</b>      | <b>pg/g</b>      | <b>pg/g</b>       |
| Total-TCDD                               | 0.808           | <0.33        | 0.283            | <0.17            | 0.521            | 0.439             |
| Total-PeCDD                              | 8.19            | 8.00         | 2.59             | 6.26             | 1.68             | 4.66              |
| Total-HxCDD                              | 13.7            | 14.3         | 4.70             | 7.84             | 1.35             | 4.94              |
| Total-HpCDD                              | 18.8            | 19.5         | <0.11            | 4.86             | 2.63             | 9.55              |
| Total-TCDF                               | 59.6            | 50.6         | 0.930            | 2.07             | 0.349            | 27.2              |
| Total-PeCDF                              | 98.4            | 101          | 21.4             | 6.72             | 2.86             | 38.0              |
| Total-HxCDF                              | 43.1            | 45.7         | 8.00             | 1.78             | 0.752            | 31.6              |
| Total-HpCDF                              | 11.3            | 12.5         | 2.36             | 2.05             | <0.46            | 8.74              |
| <b>Toxic Equivalency - (WHO 2005)</b>    |                 |              |                  |                  |                  |                   |
| <b>Lower Bound PCDD/F TEQ (WHO 2005)</b> | 30.5            | 30.9         | 6.57             | 6.58             | 2.04             | 16.3              |
| <b>Mid Point PCDD/F TEQ (WHO 2005)</b>   | 30.8            | 31.6         | 7.62             | 7.80             | 2.55             | 16.8              |
| <b>Upper Bound PCDD/F TEQ (WHO 2005)</b> | 30.8            | 31.6         | 7.63             | 7.81             | 2.55             | 16.8              |



| ALS Life Sciences                        |                   |                   |                  |                   |                   |
|------------------------------------------|-------------------|-------------------|------------------|-------------------|-------------------|
| Sample Analysis Summary Report           |                   |                   |                  |                   |                   |
| Sample Name                              | PLOT 110 - 4 JARS | PLOT 114 - 4 JARS | PLOT 117 - 1 JAR | PLOT 123 - 3 JARS | PLOT 402 - 6 JARS |
| ALS Sample ID                            | L2756078-6        | L2756078-7        | L2756078-8       | L2756078-9        | L2756078-10       |
| Sample Size                              | 2.95              | 2.97              | 1.33             | 2.82              | 2.86              |
| Sample size units                        | g                 | g                 | g                | g                 | g                 |
| Percent Moisture                         | 71.51%            | 71.46%            | 69.96%           | 72.15%            | 72.66%            |
| Sample Matrix                            | Tissue            | Tissue            | Tissue           | Tissue            | Tissue            |
| Sampling Date                            | 25-May-24         | 25-May-24         | 25-May-24        | 25-May-24         | 25-May-24         |
| Extraction Date                          | 6-Jul-24          | 6-Jul-24          | 6-Jul-24         | 6-Jul-24          | 6-Jul-24          |
| <b>Target Analytes</b>                   | <b>pg/g</b>       | <b>pg/g</b>       | <b>pg/g</b>      | <b>pg/g</b>       | <b>pg/g</b>       |
| 2,3,7,8-TCDD                             | <0.26             | 0.259             | <0.26            | <0.27             | 0.206             |
| 1,2,3,7,8-PeCDD                          | <1.7              | <1.6              | 1.09             | <2.2              | <0.42             |
| 1,2,3,4,7,8-HxCDD                        | 1.13              | <0.52             | <0.57            | <1.3              | <0.23             |
| 1,2,3,6,7,8-HxCDD                        | 1.70              | 1.23              | 1.04             | 2.05              | 0.564             |
| 1,2,3,7,8,9-HxCDD                        | <0.78             | 0.766             | <0.44            | 0.691             | <0.25             |
| 1,2,3,4,6,7,8-HpCDD                      | 4.21              | 4.03              | <1.4             | <4.0              | 1.20              |
| OCDD                                     | 4.46              | <4.2              | <3.1             | 4.01              | 1.74              |
| 2,3,7,8-TCDF                             | 11.7              | 7.57              | <2.8             | 6.94              | 0.803             |
| 1,2,3,7,8-PeCDF                          | <3.1              | 3.52              | 1.74             | <3.1              | <0.50             |
| 2,3,4,7,8-PeCDF                          | <7.1              | 5.68              | <2.4             | 9.63              | <0.35             |
| 1,2,3,4,7,8-HxCDF                        | 1.45              | <1.1              | 0.825            | 1.52              | <0.19             |
| 1,2,3,6,7,8-HxCDF                        | 1.34              | <1.7              | <0.56            | <1.5              | 0.329             |
| 2,3,4,6,7,8-HxCDF                        | 1.83              | 1.87              | 1.19             | 2.12              | <0.19             |
| 1,2,3,7,8,9-HxCDF                        | <0.23             | <0.57             | <0.49            | <0.15             | <0.23             |
| 1,2,3,4,6,7,8-HpCDF                      | 1.50              | <1.6              | <0.72            | <1.3              | <0.38             |
| 1,2,3,4,7,8,9-HpCDF                      | <0.20             | 0.424             | <0.53            | <0.24             | <0.15             |
| OCDF                                     | <0.35             | 0.744             | <0.59            | <0.50             | 0.298             |
| <b>Extraction Standards</b>              | <b>% Rec</b>      | <b>% Rec</b>      | <b>% Rec</b>     | <b>% Rec</b>      | <b>% Rec</b>      |
| 13C12-2,3,7,8-TCDD                       | 55                | 53                | 72               | 65                | 81                |
| 13C12-1,2,3,7,8-PeCDD                    | 58                | 56                | 73               | 67                | 83                |
| 13C12-1,2,3,4,7,8-HxCDD                  | 63                | 59                | 80               | 70                | 90                |
| 13C12-1,2,3,6,7,8-HxCDD                  | 64                | 60                | 79               | 73                | 89                |
| 13C12-1,2,3,4,6,7,8-HpCDD                | 70                | 65                | 84               | 77                | 97                |
| 13C12-OCDD                               | 69                | 64                | 78               | 74                | 95                |
| 13C12-2,3,7,8-TCDF                       | 54                | 51                | 69               | 62                | 77                |
| 13C12-1,2,3,7,8-PeCDF                    | 53                | 51                | 66               | 62                | 77                |
| 13C12-2,3,4,7,8-PeCDF                    | 58                | 58                | 77               | 69                | 87                |
| 13C12-1,2,3,4,7,8-HxCDF                  | 65                | 60                | 79               | 74                | 92                |
| 13C12-1,2,3,6,7,8-HxCDF                  | 62                | 55                | 74               | 63                | 74                |
| 13C12-2,3,4,6,7,8-HxCDF                  | 65                | 61                | 79               | 72                | 92                |
| 13C12-1,2,3,7,8,9-HxCDF                  | 73                | 69                | 84               | 79                | 103               |
| 13C12-1,2,3,4,6,7,8-HpCDF                | 71                | 66                | 86               | 78                | 100               |
| 13C12-1,2,3,4,7,8,9-HpCDF                | 72                | 68                | 87               | 77                | 99                |
| <b>Cleanup Standard</b>                  |                   |                   |                  |                   |                   |
| 37Cl4-2,3,7,8-TCDD (Cleanup)             | 47                | 53                | 64               | 69                | 65                |
| <b>Homologue Group Totals</b>            | <b>pg/g</b>       | <b>pg/g</b>       | <b>pg/g</b>      | <b>pg/g</b>       | <b>pg/g</b>       |
| Total-TCDD                               | <0.19             | <0.26             | <0.26            | 0.274             | 0.206             |
| Total-PeCDD                              | 1.34              | <0.23             | 1.09             | 1.27              | <0.19             |
| Total-HxCDD                              | 4.85              | 2.00              | 1.04             | 2.74              | 0.564             |
| Total-HpCDD                              | 6.42              | 5.78              | <0.39            | 2.42              | 1.20              |
| Total-TCDF                               | 12.7              | 8.84              | <0.43            | 7.87              | 1.40              |
| Total-PeCDF                              | 3.08              | 13.9              | 3.94             | 14.0              | <0.17             |
| Total-HxCDF                              | 5.87              | 6.56              | 2.02             | 7.01              | 0.901             |
| Total-HpCDF                              | 1.50              | 1.29              | <0.53            | 1.22              | <0.15             |
| <b>Toxic Equivalency - (WHO 2005)</b>    |                   |                   |                  |                   |                   |
| <b>Lower Bound PCDD/F TEQ (WHO 2005)</b> | 1.97              | 3.26              | 1.45             | 4.22              | 0.388             |
| <b>Mid Point PCDD/F TEQ (WHO 2005)</b>   | 6.25              | 5.23              | 2.78             | 7.13              | 1.02              |
| <b>Upper Bound PCDD/F TEQ (WHO 2005)</b> | 6.26              | 5.26              | 2.94             | 7.14              | 1.04              |

| ALS Life Sciences                     |              |              |                           |
|---------------------------------------|--------------|--------------|---------------------------|
| Quality Control Summary Report        |              |              |                           |
| Sample Name                           | Method Blank | Method Blank | Laboratory Control Sample |
| ALS Sample ID                         | WG3789754-1  | WG3789754-4  | WG3789754-2               |
| Sample Size                           | 3.00         | 3.00         | 1                         |
| Sample size units                     | g            | g            | n/a                       |
| Percent Moisture                      | n/a          | n/a          | n/a                       |
| Sample Matrix                         | 1g Corn oil  | Reagent      | QC                        |
| Sampling Date                         | n/a          | n/a          | n/a                       |
| Extraction Date                       | 6-Jul-24     | 6-Jul-24     | 6-Jul-24                  |
| <b>Target Analytes</b>                | <b>pg/g</b>  | <b>pg/g</b>  | <b>% Rec</b>              |
| 2,3,7,8-TCDD                          | <0.36        | <0.29        | 93                        |
| 1,2,3,7,8-PeCDD                       | <0.32        | <0.15        | 113                       |
| 1,2,3,4,7,8-HxCDD                     | <0.16        | <0.14        | 103                       |
| 1,2,3,6,7,8-HxCDD                     | <0.15        | <0.15        | 99                        |
| 1,2,3,7,8,9-HxCDD                     | <0.15        | 0.198        | 112                       |
| 1,2,3,4,6,7,8-HpCDD                   | <0.27        | <0.33        | 104                       |
| OCDD                                  | <0.66        | <0.54        | 98                        |
| 2,3,7,8-TCDF                          | <0.29        | <0.26        | 100                       |
| 1,2,3,7,8-PeCDF                       | 0.394        | <0.30        | 123                       |
| 2,3,4,7,8-PeCDF                       | <0.21        | <0.16        | 102                       |
| 1,2,3,4,7,8-HxCDF                     | <0.28        | <0.15        | 100                       |
| 1,2,3,6,7,8-HxCDF                     | <0.29        | <0.17        | 107                       |
| 2,3,4,6,7,8-HxCDF                     | <0.27        | <0.17        | 98                        |
| 1,2,3,7,8,9-HxCDF                     | <0.32        | <0.21        | 107                       |
| 1,2,3,4,6,7,8-HpCDF                   | <0.16        | <0.16        | 104                       |
| 1,2,3,4,7,8,9-HpCDF                   | <0.21        | <0.10        | 118                       |
| OCDF                                  | <0.30        | <0.36        | 114                       |
| <b>Extraction Standards</b>           | <b>% Rec</b> | <b>% Rec</b> | <b>% Rec</b>              |
| 13C12-2,3,7,8-TCDD                    | 57           | 70           | 54                        |
| 13C12-1,2,3,7,8-PeCDD                 | 56           | 76           | 72                        |
| 13C12-1,2,3,4,7,8-HxCDD               | 66           | 86           | 54                        |
| 13C12-1,2,3,6,7,8-HxCDD               | 66           | 85           | 55                        |
| 13C12-1,2,3,4,6,7,8-HpCDD             | 75           | 94           | 65                        |
| 13C12-OCDD                            | 73           | 70           | 64                        |
| 13C12-2,3,7,8-TCDF                    | 53           | 67           | 56                        |
| 13C12-1,2,3,7,8-PeCDF                 | 53           | 72           | 63                        |
| 13C12-2,3,4,7,8-PeCDF                 | 58           | 80           | 77                        |
| 13C12-1,2,3,4,7,8-HxCDF               | 67           | 91           | 58                        |
| 13C12-1,2,3,6,7,8-HxCDF               | 63           | 85           | 59                        |
| 13C12-2,3,4,6,7,8-HxCDF               | 67           | 89           | 59                        |
| 13C12-1,2,3,7,8,9-HxCDF               | 73           | 98           | 67                        |
| 13C12-1,2,3,4,6,7,8-HpCDF             | 76           | 97           | 68                        |
| 13C12-1,2,3,4,7,8,9-HpCDF             | 73           | 92           | 67                        |
| <b>Cleanup Standard</b>               |              |              |                           |
| 37Cl4-2,3,7,8-TCDD (Cleanup)          | 67           | 56           | 76                        |
| <b>Homologue Group Totals</b>         | <b>pg/g</b>  | <b>pg/g</b>  |                           |
| Total-TCDD                            | <0.36        | <0.29        |                           |
| Total-PeCDD                           | <0.30        | <0.15        |                           |
| Total-HxCDD                           | <0.16        | 0.198        |                           |
| Total-HpCDD                           | <0.14        | <0.20        |                           |
| Total-TCDF                            | 0.352        | <0.26        |                           |
| Total-PeCDF                           | 0.394        | <0.21        |                           |
| Total-HxCDF                           | <0.32        | 0.404        |                           |
| Total-HpCDF                           | <0.21        | <0.10        |                           |
| <b>Toxic Equivalency - (WHO 2005)</b> |              |              |                           |
| Lower Bound PCDD/F TEQ (WHO 2005)     | 0.0118       | 0.0198       |                           |
| Mid Point PCDD/F TEQ (WHO 2005)       | 0.659        | 0.341        |                           |
| Upper Bound PCDD/F TEQ (WHO 2005)     | 0.953        | 0.648        |                           |

| ALS Life Sciences                 |  |                                                                                                                          |              |               |                  |       |                                 |     |                                                             |
|-----------------------------------|--|--------------------------------------------------------------------------------------------------------------------------|--------------|---------------|------------------|-------|---------------------------------|-----|-------------------------------------------------------------|
| Sample Analysis Report            |  |                                                                                                                          |              |               |                  |       |                                 |     |                                                             |
| Sample Name                       |  | PLOT 4 - 6 JARS                                                                                                          |              |               | Sampling Date    |       | 25-May-24                       |     | Approved:<br>M.Elchawiche<br>--e-signature--<br>26-Jul-2024 |
| ALS Sample ID                     |  | L2756078-1                                                                                                               |              |               | Extraction Date  |       | 6-Jul-24                        |     |                                                             |
| Analysis Method                   |  | EPA 1613B                                                                                                                |              |               | Sample Size      |       | 2.85 g                          |     |                                                             |
| Analysis Type                     |  | Sample                                                                                                                   |              |               | Percent Moisture |       | 72.0%                           |     |                                                             |
| Sample Matrix                     |  | Tissue                                                                                                                   |              |               | Split Ratio      |       | 4                               |     |                                                             |
| Run Information                   |  | Run 1                                                                                                                    |              |               |                  |       |                                 |     |                                                             |
| Filename                          |  | 12-240715A12                                                                                                             |              |               |                  |       |                                 |     |                                                             |
| Run Date                          |  | 15-Jul-24 17:41                                                                                                          |              |               |                  |       |                                 |     |                                                             |
| Final Volume                      |  | 10 uL                                                                                                                    |              |               |                  |       |                                 |     |                                                             |
| Dilution Factor                   |  | 1                                                                                                                        |              |               |                  |       |                                 |     |                                                             |
| Analysis Units                    |  | pg/g                                                                                                                     |              |               |                  |       |                                 |     |                                                             |
| Instrument - Column               |  | HRMS-12 ZB-DX1171742                                                                                                     |              |               |                  |       |                                 |     |                                                             |
|                                   |  |                                                                                                                          |              |               |                  |       |                                 |     |                                                             |
| Target Analytes                   |  | TEF<br>(WHO 2005)                                                                                                        | Ret.<br>Time | Conc.<br>pg/g | EDL<br>pg/g      | Flags | EMPC<br>pg/g                    | LQL |                                                             |
| 2,3,7,8-TCDD                      |  | 1                                                                                                                        | 28.64        | 0.808         | 0.17             | J     |                                 | 7.0 |                                                             |
| 1,2,3,7,8-PeCDD                   |  | 1                                                                                                                        | 31.64        | 6.51          | 0.23             | J     |                                 | 35  |                                                             |
| 1,2,3,4,7,8-HxCDD                 |  | 0.1                                                                                                                      | 33.86        | 2.83          | 0.24             | J     |                                 | 35  |                                                             |
| 1,2,3,6,7,8-HxCDD                 |  | 0.1                                                                                                                      | 33.95        | 5.28          | 0.24             | J     |                                 | 35  |                                                             |
| 1,2,3,7,8,9-HxCDD                 |  | 0.1                                                                                                                      | 34.14        | <2.4          | 0.23             | M,J,R | 2.4                             | 35  |                                                             |
| 1,2,3,4,6,7,8-HpCDD               |  | 0.01                                                                                                                     | 36.46        | 12.9          | 0.20             | J     |                                 | 35  |                                                             |
| OCDD                              |  | 0.0003                                                                                                                   | 39.42        | 15.3          | 0.42             | J     |                                 | 70  |                                                             |
| 2,3,7,8-TCDF                      |  | 0.1                                                                                                                      | 28.13        | 47.3          | 0.35             | M     |                                 | 7.0 |                                                             |
| 1,2,3,7,8-PeCDF                   |  | 0.03                                                                                                                     | 30.91        | 17.7          | 0.43             | J     |                                 | 35  |                                                             |
| 2,3,4,7,8-PeCDF                   |  | 0.3                                                                                                                      | 31.54        | 46.1          | 0.33             |       |                                 | 35  |                                                             |
| 1,2,3,4,7,8-HxCDF                 |  | 0.1                                                                                                                      | 33.29        | 6.59          | 0.20             | J     |                                 | 35  |                                                             |
| 1,2,3,6,7,8-HxCDF                 |  | 0.1                                                                                                                      | 33.38        | 7.95          | 0.22             | J     |                                 | 35  |                                                             |
| 2,3,4,6,7,8-HxCDF                 |  | 0.1                                                                                                                      | 33.81        | 15.9          | 0.21             | J     |                                 | 35  |                                                             |
| 1,2,3,7,8,9-HxCDF                 |  | 0.1                                                                                                                      | 34.51        | <0.27         | 0.27             | M,U   | 0.24                            | 35  |                                                             |
| 1,2,3,4,6,7,8-HpCDF               |  | 0.01                                                                                                                     | 35.50        | 10.5          | 0.24             | J     |                                 | 35  |                                                             |
| 1,2,3,4,7,8,9-HpCDF               |  | 0.01                                                                                                                     | 37.14        | <1.0          | 0.36             | M,J,R | 1.0                             | 35  |                                                             |
| OCDF                              |  | 0.0003                                                                                                                   | 39.77        | <2.3          | 0.37             | J,R   | 2.3                             | 70  |                                                             |
| Extraction Standards              |  | pg                                                                                                                       |              | % Rec         | Limits           |       |                                 |     |                                                             |
| 13C12-2,3,7,8-TCDD                |  | 4000                                                                                                                     | 28.64        | 74            | 25-164           |       |                                 |     |                                                             |
| 13C12-1,2,3,7,8-PeCDD             |  | 4000                                                                                                                     | 31.63        | 75            | 25-181           |       |                                 |     |                                                             |
| 13C12-1,2,3,4,7,8-HxCDD           |  | 4000                                                                                                                     | 33.85        | 84            | 32-141           |       |                                 |     |                                                             |
| 13C12-1,2,3,6,7,8-HxCDD           |  | 4000                                                                                                                     | 33.93        | 81            | 28-130           |       |                                 |     |                                                             |
| 13C12-1,2,3,4,6,7,8-HpCDD         |  | 4000                                                                                                                     | 36.45        | 85            | 23-140           |       |                                 |     |                                                             |
| 13C12-OCDD                        |  | 8000                                                                                                                     | 39.40        | 79            | 17-157           |       |                                 |     |                                                             |
| 13C12-2,3,7,8-TCDF                |  | 4000                                                                                                                     | 28.12        | 74            | 24-169           |       |                                 |     |                                                             |
| 13C12-1,2,3,7,8-PeCDF             |  | 4000                                                                                                                     | 30.90        | 70            | 24-185           |       |                                 |     |                                                             |
| 13C12-2,3,4,7,8-PeCDF             |  | 4000                                                                                                                     | 31.53        | 80            | 21-178           |       |                                 |     |                                                             |
| 13C12-1,2,3,4,7,8-HxCDF           |  | 4000                                                                                                                     | 33.28        | 86            | 26-152           |       |                                 |     |                                                             |
| 13C12-1,2,3,6,7,8-HxCDF           |  | 4000                                                                                                                     | 33.37        | 81            | 26-123           |       |                                 |     |                                                             |
| 13C12-2,3,4,6,7,8-HxCDF           |  | 4000                                                                                                                     | 33.80        | 81            | 28-136           |       |                                 |     |                                                             |
| 13C12-1,2,3,7,8,9-HxCDF           |  | 4000                                                                                                                     | 34.51        | 87            | 29-147           |       |                                 |     |                                                             |
| 13C12-1,2,3,4,6,7,8-HpCDF         |  | 4000                                                                                                                     | 35.49        | 88            | 28-143           |       |                                 |     |                                                             |
| 13C12-1,2,3,4,7,8,9-HpCDF         |  | 4000                                                                                                                     | 37.11        | 87            | 26-138           |       |                                 |     |                                                             |
| Cleanup Standard                  |  | pg                                                                                                                       |              |               |                  |       |                                 |     |                                                             |
| 37Cl4-2,3,7,8-TCDD (Cleanup)      |  | 80                                                                                                                       | 28.66        | 61            | 35-197           |       |                                 |     |                                                             |
| Homologue Group Totals            |  |                                                                                                                          | # peaks      | Conc.<br>pg/g | EDL<br>pg/g      |       |                                 |     |                                                             |
| Total-TCDD                        |  |                                                                                                                          | 1            | 0.808         | 0.17             | 7.0   |                                 |     |                                                             |
| Total-PeCDD                       |  |                                                                                                                          | 2            | 8.19          | 0.23             | 35    |                                 |     |                                                             |
| Total-HxCDD                       |  |                                                                                                                          | 5            | 13.7          | 0.24             | 35    |                                 |     |                                                             |
| Total-HpCDD                       |  |                                                                                                                          | 2            | 18.8          | 0.20             | 35    |                                 |     |                                                             |
| Total-TCDF                        |  |                                                                                                                          | 11           | 59.6          | 0.35             | 7.0   |                                 |     |                                                             |
| Total-PeCDF                       |  |                                                                                                                          | 7            | 98.4          | 0.43             | 35    |                                 |     |                                                             |
| Total-HxCDF                       |  |                                                                                                                          | 7            | 43.1          | 0.27             | 35    |                                 |     |                                                             |
| Total-HpCDF                       |  |                                                                                                                          | 2            | 11.3          | 0.36             | 35    |                                 |     |                                                             |
|                                   |  |                                                                                                                          |              |               |                  |       |                                 |     |                                                             |
| Toxic Equivalency - (WHO 2005)    |  |                                                                                                                          |              | pg/g          |                  |       |                                 |     |                                                             |
| Lower Bound PCDD/F TEQ (WHO 2005) |  |                                                                                                                          |              | 30.5          |                  |       |                                 |     |                                                             |
| Mid Point PCDD/F TEQ (WHO 2005)   |  |                                                                                                                          |              | 30.8          |                  |       |                                 |     |                                                             |
| Upper Bound PCDD/F TEQ (WHO 2005) |  |                                                                                                                          |              | 30.8          |                  |       |                                 |     |                                                             |
|                                   |  |                                                                                                                          |              |               |                  |       |                                 |     |                                                             |
| EDL                               |  | Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.          |              |               |                  |       |                                 |     |                                                             |
| TEF                               |  | Indicates the Toxic Equivalency Factor                                                                                   |              |               |                  | TEQ   | Indicates the Toxic Equivalency |     |                                                             |
| M                                 |  | Indicates that a peak has been manually integrated.                                                                      |              |               |                  |       |                                 |     |                                                             |
| U                                 |  | Indicates that this compound was not detected above the EDL.                                                             |              |               |                  |       |                                 |     |                                                             |
| J                                 |  | Indicates that a target analyte was detected below the calibrated range.                                                 |              |               |                  |       |                                 |     |                                                             |
| R                                 |  | Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.                          |              |               |                  |       |                                 |     |                                                             |
| LQL                               |  | Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.       |              |               |                  |       |                                 |     |                                                             |
| EMPC                              |  | Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure |              |               |                  |       |                                 |     |                                                             |

| ALS Life Sciences                 |  |                                                                                                                          |              |                      |             |                                 |              |                                                             |  |
|-----------------------------------|--|--------------------------------------------------------------------------------------------------------------------------|--------------|----------------------|-------------|---------------------------------|--------------|-------------------------------------------------------------|--|
| Sample Analysis Report            |  |                                                                                                                          |              |                      |             |                                 |              |                                                             |  |
| Sample Name                       |  | Duplicate                                                                                                                |              | Sampling Date        |             | n/a                             |              | Approved:<br>M.Elchawiche<br>--e-signature--<br>26-Jul-2024 |  |
| ALS Sample ID                     |  | WG3789754-5                                                                                                              |              | Extraction Date      |             | 6-Jul-24                        |              |                                                             |  |
| Analysis Method                   |  | EPA 1613B                                                                                                                |              | Sample Size          |             | 2.87 g                          |              |                                                             |  |
| Analysis Type                     |  | Sample                                                                                                                   |              | Percent Moisture     |             | 72.0%                           |              |                                                             |  |
| Sample Matrix                     |  | QC                                                                                                                       |              | Split Ratio          |             | 4                               |              |                                                             |  |
| Run Information                   |  |                                                                                                                          |              | Run 1                |             |                                 |              |                                                             |  |
| Filename                          |  |                                                                                                                          |              | 12-240715A13         |             |                                 |              |                                                             |  |
| Run Date                          |  |                                                                                                                          |              | 15-Jul-24 18:26      |             |                                 |              |                                                             |  |
| Final Volume                      |  |                                                                                                                          |              | 10 uL                |             |                                 |              |                                                             |  |
| Dilution Factor                   |  |                                                                                                                          |              | 1                    |             |                                 |              |                                                             |  |
| Analysis Units                    |  |                                                                                                                          |              | pg/g                 |             |                                 |              |                                                             |  |
| Instrument - Column               |  |                                                                                                                          |              | HRMS-12 ZB-DX1171742 |             |                                 |              |                                                             |  |
|                                   |  |                                                                                                                          |              |                      |             |                                 |              |                                                             |  |
| Target Analytes                   |  | TEF<br>(WHO 2005)                                                                                                        | Ret.<br>Time | Conc.<br>pg/g        | EDL<br>pg/g | Flags                           | EMPC<br>pg/g | LQL                                                         |  |
| 2,3,7,8-TCDD                      |  | 1                                                                                                                        | 28.67        | <0.66                | 0.33        | J,R                             | 0.66         | 7.0                                                         |  |
| 1,2,3,7,8-PeCDD                   |  | 1                                                                                                                        | 31.64        | 6.29                 | 0.28        | J                               |              | 35                                                          |  |
| 1,2,3,4,7,8-HxCDD                 |  | 0.1                                                                                                                      | 33.86        | 3.47                 | 0.36        | J                               |              | 35                                                          |  |
| 1,2,3,6,7,8-HxCDD                 |  | 0.1                                                                                                                      | 33.95        | 5.76                 | 0.35        | J                               |              | 35                                                          |  |
| 1,2,3,7,8,9-HxCDD                 |  | 0.1                                                                                                                      | 34.14        | 3.05                 | 0.35        | J                               |              | 35                                                          |  |
| 1,2,3,4,6,7,8-HpCDD               |  | 0.01                                                                                                                     | 36.46        | 13.2                 | 0.18        | J                               |              | 35                                                          |  |
| OCDD                              |  | 0.0003                                                                                                                   | 39.41        | 15.8                 | 0.51        | J                               |              | 70                                                          |  |
| 2,3,7,8-TCDF                      |  | 0.1                                                                                                                      | 28.13        | 48.3                 | 0.36        |                                 |              | 7.0                                                         |  |
| 1,2,3,7,8-PeCDF                   |  | 0.03                                                                                                                     | 30.91        | 16.9                 | 0.38        | J                               |              | 35                                                          |  |
| 2,3,4,7,8-PeCDF                   |  | 0.3                                                                                                                      | 31.54        | 48.8                 | 0.30        |                                 |              | 35                                                          |  |
| 1,2,3,4,7,8-HxCDF                 |  | 0.1                                                                                                                      | 33.28        | 6.71                 | 0.26        | J                               |              | 35                                                          |  |
| 1,2,3,6,7,8-HxCDF                 |  | 0.1                                                                                                                      | 33.38        | 7.78                 | 0.30        | J                               |              | 35                                                          |  |
| 2,3,4,6,7,8-HxCDF                 |  | 0.1                                                                                                                      | 33.81        | 16.8                 | 0.27        | J                               |              | 35                                                          |  |
| 1,2,3,7,8,9-HxCDF                 |  | 0.1                                                                                                                      | 34.55        | <0.74                | 0.32        | M,J,R                           | 0.74         | 35                                                          |  |
| 1,2,3,4,6,7,8-HpCDF               |  | 0.01                                                                                                                     | 35.50        | 11.3                 | 0.17        | J                               |              | 35                                                          |  |
| 1,2,3,4,7,8,9-HpCDF               |  | 0.01                                                                                                                     | 37.12        | 1.21                 | 0.24        | J                               |              | 35                                                          |  |
| OCDF                              |  | 0.0003                                                                                                                   | 39.78        | <3.0                 | 0.29        | J,R                             | 3.0          | 70                                                          |  |
| Extraction Standards              |  | pg                                                                                                                       |              | % Rec                | Limits      |                                 |              |                                                             |  |
| 13C12-2,3,7,8-TCDD                |  | 4000                                                                                                                     | 28.64        | 74                   | 25-164      |                                 |              |                                                             |  |
| 13C12-1,2,3,7,8-PeCDD             |  | 4000                                                                                                                     | 31.63        | 80                   | 25-181      |                                 |              |                                                             |  |
| 13C12-1,2,3,4,7,8-HxCDD           |  | 4000                                                                                                                     | 33.85        | 90                   | 32-141      |                                 |              |                                                             |  |
| 13C12-1,2,3,6,7,8-HxCDD           |  | 4000                                                                                                                     | 33.93        | 87                   | 28-130      |                                 |              |                                                             |  |
| 13C12-1,2,3,4,6,7,8-HpCDD         |  | 4000                                                                                                                     | 36.45        | 98                   | 23-140      |                                 |              |                                                             |  |
| 13C12-OCDD                        |  | 8000                                                                                                                     | 39.40        | 96                   | 17-157      |                                 |              |                                                             |  |
| 13C12-2,3,7,8-TCDF                |  | 4000                                                                                                                     | 28.12        | 74                   | 24-169      |                                 |              |                                                             |  |
| 13C12-1,2,3,7,8-PeCDF             |  | 4000                                                                                                                     | 30.90        | 73                   | 24-185      |                                 |              |                                                             |  |
| 13C12-2,3,4,7,8-PeCDF             |  | 4000                                                                                                                     | 31.53        | 83                   | 21-178      |                                 |              |                                                             |  |
| 13C12-1,2,3,4,7,8-HxCDF           |  | 4000                                                                                                                     | 33.28        | 93                   | 26-152      |                                 |              |                                                             |  |
| 13C12-1,2,3,6,7,8-HxCDF           |  | 4000                                                                                                                     | 33.37        | 83                   | 26-123      |                                 |              |                                                             |  |
| 13C12-2,3,4,6,7,8-HxCDF           |  | 4000                                                                                                                     | 33.80        | 91                   | 28-136      |                                 |              |                                                             |  |
| 13C12-1,2,3,7,8,9-HxCDF           |  | 4000                                                                                                                     | 34.51        | 101                  | 29-147      |                                 |              |                                                             |  |
| 13C12-1,2,3,4,6,7,8-HpCDF         |  | 4000                                                                                                                     | 35.49        | 101                  | 28-143      |                                 |              |                                                             |  |
| 13C12-1,2,3,4,7,8,9-HpCDF         |  | 4000                                                                                                                     | 37.11        | 101                  | 26-138      |                                 |              |                                                             |  |
| Cleanup Standard                  |  | pg                                                                                                                       |              |                      |             |                                 |              |                                                             |  |
| 37Cl4-2,3,7,8-TCDD (Cleanup)      |  | 80                                                                                                                       | 28.66        | 71                   | 35-197      |                                 |              |                                                             |  |
| Homologue Group Totals            |  |                                                                                                                          | # peaks      | Conc.<br>pg/g        | EDL<br>pg/g |                                 |              |                                                             |  |
| Total-TCDD                        |  |                                                                                                                          | 0            | <0.33                | 0.33        | U                               | 7.0          |                                                             |  |
| Total-PeCDD                       |  |                                                                                                                          | 3            | 8.00                 | 0.28        |                                 | 35           |                                                             |  |
| Total-HxCDD                       |  |                                                                                                                          | 4            | 14.3                 | 0.36        |                                 | 35           |                                                             |  |
| Total-HpCDD                       |  |                                                                                                                          | 2            | 19.5                 | 0.18        |                                 | 35           |                                                             |  |
| Total-TCDF                        |  |                                                                                                                          | 6            | 50.6                 | 0.36        |                                 | 7.0          |                                                             |  |
| Total-PeCDF                       |  |                                                                                                                          | 7            | 101                  | 0.38        |                                 | 35           |                                                             |  |
| Total-HxCDF                       |  |                                                                                                                          | 7            | 45.7                 | 0.32        |                                 | 35           |                                                             |  |
| Total-HpCDF                       |  |                                                                                                                          | 2            | 12.5                 | 0.24        |                                 | 35           |                                                             |  |
|                                   |  |                                                                                                                          |              |                      |             |                                 |              |                                                             |  |
| Toxic Equivalency - (WHO 2005)    |  |                                                                                                                          |              | pg/g                 |             |                                 |              |                                                             |  |
| Lower Bound PCDD/F TEQ (WHO 2005) |  |                                                                                                                          |              | 30.9                 |             |                                 |              |                                                             |  |
| Mid Point PCDD/F TEQ (WHO 2005)   |  |                                                                                                                          |              | 31.6                 |             |                                 |              |                                                             |  |
| Upper Bound PCDD/F TEQ (WHO 2005) |  |                                                                                                                          |              | 31.6                 |             |                                 |              |                                                             |  |
|                                   |  |                                                                                                                          |              |                      |             |                                 |              |                                                             |  |
| EDL                               |  | Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.          |              |                      |             |                                 |              |                                                             |  |
| TEF                               |  | Indicates the Toxic Equivalency Factor                                                                                   |              |                      | TEQ         | Indicates the Toxic Equivalency |              |                                                             |  |
| M                                 |  | Indicates that a peak has been manually integrated.                                                                      |              |                      |             |                                 |              |                                                             |  |
|                                   |  |                                                                                                                          |              |                      |             |                                 |              |                                                             |  |
| J                                 |  | Indicates that a target analyte was detected below the calibrated range.                                                 |              |                      |             |                                 |              |                                                             |  |
| R                                 |  | Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.                          |              |                      |             |                                 |              |                                                             |  |
|                                   |  |                                                                                                                          |              |                      |             |                                 |              |                                                             |  |
| LQL                               |  | Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.       |              |                      |             |                                 |              |                                                             |  |
| EMPC                              |  | Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure |              |                      |             |                                 |              |                                                             |  |

| ALS Life Sciences                 |  |                                                                                                                          |              |               |                  |       |                                 |     |                                                             |
|-----------------------------------|--|--------------------------------------------------------------------------------------------------------------------------|--------------|---------------|------------------|-------|---------------------------------|-----|-------------------------------------------------------------|
| Sample Analysis Report            |  |                                                                                                                          |              |               |                  |       |                                 |     |                                                             |
| Sample Name                       |  | PLOT 11 - 4 JARS                                                                                                         |              |               | Sampling Date    |       | 25-May-24                       |     | Approved:<br>M.Elchawiche<br>--e-signature--<br>26-Jul-2024 |
| ALS Sample ID                     |  | L2756078-2                                                                                                               |              |               | Extraction Date  |       | 6-Jul-24                        |     |                                                             |
| Analysis Method                   |  | EPA 1613B                                                                                                                |              |               | Sample Size      |       | 3.00 g                          |     |                                                             |
| Analysis Type                     |  | Sample                                                                                                                   |              |               | Percent Moisture |       | 70.9%                           |     |                                                             |
| Sample Matrix                     |  | Tissue                                                                                                                   |              |               | Split Ratio      |       | 4                               |     |                                                             |
| Run Information                   |  | Run 1                                                                                                                    |              |               |                  |       |                                 |     |                                                             |
| Filename                          |  | 12-240715A14                                                                                                             |              |               |                  |       |                                 |     |                                                             |
| Run Date                          |  | 15-Jul-24 19:12                                                                                                          |              |               |                  |       |                                 |     |                                                             |
| Final Volume                      |  | 10 uL                                                                                                                    |              |               |                  |       |                                 |     |                                                             |
| Dilution Factor                   |  | 1                                                                                                                        |              |               |                  |       |                                 |     |                                                             |
| Analysis Units                    |  | pg/g                                                                                                                     |              |               |                  |       |                                 |     |                                                             |
| Instrument - Column               |  | HRMS-12 ZB-DX1171742                                                                                                     |              |               |                  |       |                                 |     |                                                             |
|                                   |  |                                                                                                                          |              |               |                  |       |                                 |     |                                                             |
| Target Analytes                   |  | TEF<br>(WHO 2005)                                                                                                        | Ret.<br>Time | Conc.<br>pg/g | EDL<br>pg/g      | Flags | EMPC<br>pg/g                    | LQL |                                                             |
| 2,3,7,8-TCDD                      |  | 1                                                                                                                        | 28.66        | 0.283         | 0.22             | M,J   |                                 | 6.7 |                                                             |
| 1,2,3,7,8-PeCDD                   |  | 1                                                                                                                        | 31.65        | 2.59          | 0.32             | M,J   |                                 | 33  |                                                             |
| 1,2,3,4,7,8-HxCDD                 |  | 0.1                                                                                                                      | 33.87        | <1.0          | 0.38             | J,R   | 1.0                             | 33  |                                                             |
| 1,2,3,6,7,8-HxCDD                 |  | 0.1                                                                                                                      | 33.95        | 1.90          | 0.40             | M,J   |                                 | 33  |                                                             |
| 1,2,3,7,8,9-HxCDD                 |  | 0.1                                                                                                                      | 34.15        | 0.828         | 0.38             | J     |                                 | 33  |                                                             |
| 1,2,3,4,6,7,8-HpCDD               |  | 0.01                                                                                                                     | 36.47        | <2.6          | 0.11             | M,J,R | 2.6                             | 33  |                                                             |
| OCDD                              |  | 0.0003                                                                                                                   | 39.42        | 4.43          | 0.35             | M,J   |                                 | 67  |                                                             |
| 2,3,7,8-TCDF                      |  | 0.1                                                                                                                      | 28.14        | <6.9          | 0.31             | M,R   | 6.9                             | 6.7 |                                                             |
| 1,2,3,7,8-PeCDF                   |  | 0.03                                                                                                                     | 30.93        | 4.61          | 0.47             | J     |                                 | 33  |                                                             |
| 2,3,4,7,8-PeCDF                   |  | 0.3                                                                                                                      | 31.54        | 9.05          | 0.41             | J     |                                 | 33  |                                                             |
| 1,2,3,4,7,8-HxCDF                 |  | 0.1                                                                                                                      | 33.29        | <2.2          | 0.18             | J,R   | 2.2                             | 33  |                                                             |
| 1,2,3,6,7,8-HxCDF                 |  | 0.1                                                                                                                      | 33.39        | 2.87          | 0.20             | J     |                                 | 33  |                                                             |
| 2,3,4,6,7,8-HxCDF                 |  | 0.1                                                                                                                      | 33.82        | 2.62          | 0.18             | J     |                                 | 33  |                                                             |
| 1,2,3,7,8,9-HxCDF                 |  | 0.1                                                                                                                      | 34.54        | <0.23         | 0.23             | M,U   | 0.18                            | 33  |                                                             |
| 1,2,3,4,6,7,8-HpCDF               |  | 0.01                                                                                                                     | 35.51        | 2.02          | 0.21             | J     |                                 | 33  |                                                             |
| 1,2,3,4,7,8,9-HpCDF               |  | 0.01                                                                                                                     | 37.12        | 0.344         | 0.31             | M,J   |                                 | 33  |                                                             |
| OCDF                              |  | 0.0003                                                                                                                   | 39.79        | <0.72         | 0.38             | M,J,R | 0.72                            | 67  |                                                             |
| Extraction Standards              |  | pg                                                                                                                       |              | % Rec         | Limits           |       |                                 |     |                                                             |
| 13C12-2,3,7,8-TCDD                |  | 4000                                                                                                                     | 28.64        | 55            | 25-164           |       |                                 |     |                                                             |
| 13C12-1,2,3,7,8-PeCDD             |  | 4000                                                                                                                     | 31.64        | 58            | 25-181           |       |                                 |     |                                                             |
| 13C12-1,2,3,4,7,8-HxCDD           |  | 4000                                                                                                                     | 33.86        | 63            | 32-141           |       |                                 |     |                                                             |
| 13C12-1,2,3,6,7,8-HxCDD           |  | 4000                                                                                                                     | 33.95        | 65            | 28-130           |       |                                 |     |                                                             |
| 13C12-1,2,3,4,6,7,8-HpCDD         |  | 4000                                                                                                                     | 36.46        | 67            | 23-140           |       |                                 |     |                                                             |
| 13C12-OCDD                        |  | 8000                                                                                                                     | 39.41        | 64            | 17-157           |       |                                 |     |                                                             |
| 13C12-2,3,7,8-TCDF                |  | 4000                                                                                                                     | 28.13        | 54            | 24-169           |       |                                 |     |                                                             |
| 13C12-1,2,3,7,8-PeCDF             |  | 4000                                                                                                                     | 30.91        | 54            | 24-185           |       |                                 |     |                                                             |
| 13C12-2,3,4,7,8-PeCDF             |  | 4000                                                                                                                     | 31.54        | 60            | 21-178           |       |                                 |     |                                                             |
| 13C12-1,2,3,4,7,8-HxCDF           |  | 4000                                                                                                                     | 33.28        | 65            | 26-152           |       |                                 |     |                                                             |
| 13C12-1,2,3,6,7,8-HxCDF           |  | 4000                                                                                                                     | 33.38        | 58            | 26-123           |       |                                 |     |                                                             |
| 13C12-2,3,4,6,7,8-HxCDF           |  | 4000                                                                                                                     | 33.81        | 64            | 28-136           |       |                                 |     |                                                             |
| 13C12-1,2,3,7,8,9-HxCDF           |  | 4000                                                                                                                     | 34.52        | 70            | 29-147           |       |                                 |     |                                                             |
| 13C12-1,2,3,4,6,7,8-HpCDF         |  | 4000                                                                                                                     | 35.50        | 70            | 28-143           |       |                                 |     |                                                             |
| 13C12-1,2,3,4,7,8,9-HpCDF         |  | 4000                                                                                                                     | 37.12        | 69            | 26-138           |       |                                 |     |                                                             |
| Cleanup Standard                  |  | pg                                                                                                                       |              |               |                  |       |                                 |     |                                                             |
| 37Cl4-2,3,7,8-TCDD (Cleanup)      |  | 80                                                                                                                       | 28.66        | 47            | 35-197           |       |                                 |     |                                                             |
| Homologue Group Totals            |  |                                                                                                                          | # peaks      | Conc.<br>pg/g | EDL<br>pg/g      |       |                                 |     |                                                             |
| Total-TCDD                        |  |                                                                                                                          | 1            | 0.283         | 0.22             |       |                                 | 6.7 |                                                             |
| Total-PeCDD                       |  |                                                                                                                          | 1            | 2.59          | 0.32             |       |                                 | 33  |                                                             |
| Total-HxCDD                       |  |                                                                                                                          | 3            | 4.70          | 0.40             |       |                                 | 33  |                                                             |
| Total-HpCDD                       |  |                                                                                                                          | 0            | <0.11         | 0.11             | U     |                                 | 33  |                                                             |
| Total-TCDF                        |  |                                                                                                                          | 3            | 0.930         | 0.31             |       |                                 | 6.7 |                                                             |
| Total-PeCDF                       |  |                                                                                                                          | 4            | 21.4          | 0.47             |       |                                 | 33  |                                                             |
| Total-HxCDF                       |  |                                                                                                                          | 5            | 8.00          | 0.23             |       |                                 | 33  |                                                             |
| Total-HpCDF                       |  |                                                                                                                          | 2            | 2.36          | 0.31             |       |                                 | 33  |                                                             |
|                                   |  |                                                                                                                          |              |               |                  |       |                                 |     |                                                             |
| Toxic Equivalency - (WHO 2005)    |  |                                                                                                                          |              | pg/g          |                  |       |                                 |     |                                                             |
| Lower Bound PCDD/F TEQ (WHO 2005) |  |                                                                                                                          |              | 6.57          |                  |       |                                 |     |                                                             |
| Mid Point PCDD/F TEQ (WHO 2005)   |  |                                                                                                                          |              | 7.62          |                  |       |                                 |     |                                                             |
| Upper Bound PCDD/F TEQ (WHO 2005) |  |                                                                                                                          |              | 7.63          |                  |       |                                 |     |                                                             |
|                                   |  |                                                                                                                          |              |               |                  |       |                                 |     |                                                             |
| EDL                               |  | Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.          |              |               |                  |       |                                 |     |                                                             |
| TEF                               |  | Indicates the Toxic Equivalency Factor                                                                                   |              |               |                  | TEQ   | Indicates the Toxic Equivalency |     |                                                             |
| M                                 |  | Indicates that a peak has been manually integrated.                                                                      |              |               |                  |       |                                 |     |                                                             |
| U                                 |  | Indicates that this compound was not detected above the EDL.                                                             |              |               |                  |       |                                 |     |                                                             |
|                                   |  |                                                                                                                          |              |               |                  |       |                                 |     |                                                             |
| J                                 |  | Indicates that a target analyte was detected below the calibrated range.                                                 |              |               |                  |       |                                 |     |                                                             |
| R                                 |  | Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.                          |              |               |                  |       |                                 |     |                                                             |
|                                   |  |                                                                                                                          |              |               |                  |       |                                 |     |                                                             |
| LQL                               |  | Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.       |              |               |                  |       |                                 |     |                                                             |
| EMPC                              |  | Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure |              |               |                  |       |                                 |     |                                                             |



| ALS Life Sciences                 |                                                                                                                          |                      |               |             |                  |                                 |           |  |                                                             |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------|----------------------|---------------|-------------|------------------|---------------------------------|-----------|--|-------------------------------------------------------------|
| Sample Analysis Report            |                                                                                                                          |                      |               |             |                  |                                 |           |  |                                                             |
| Sample Name                       |                                                                                                                          | PLOT 70 - 3 JARS     |               |             | Sampling Date    |                                 | 25-May-24 |  | Approved:<br>M.Elchawiche<br>--e-signature--<br>26-Jul-2024 |
| ALS Sample ID                     |                                                                                                                          | L2756078-3           |               |             | Extraction Date  |                                 | 6-Jul-24  |  |                                                             |
| Analysis Method                   |                                                                                                                          | EPA 1613B            |               |             | Sample Size      |                                 | 2.93 g    |  |                                                             |
| Analysis Type                     |                                                                                                                          | Sample               |               |             | Percent Moisture |                                 | 70.8%     |  |                                                             |
| Sample Matrix                     |                                                                                                                          | Tissue               |               |             | Split Ratio      |                                 | 4         |  |                                                             |
| Run Information                   |                                                                                                                          | Run 1                |               |             |                  |                                 |           |  |                                                             |
| Filename                          |                                                                                                                          | 12-240715A15         |               |             |                  |                                 |           |  |                                                             |
| Run Date                          |                                                                                                                          | 15-Jul-24 19:57      |               |             |                  |                                 |           |  |                                                             |
| Final Volume                      |                                                                                                                          | 10 uL                |               |             |                  |                                 |           |  |                                                             |
| Dilution Factor                   |                                                                                                                          | 1                    |               |             |                  |                                 |           |  |                                                             |
| Analysis Units                    |                                                                                                                          | pg/g                 |               |             |                  |                                 |           |  |                                                             |
| Instrument - Column               |                                                                                                                          | HRMS-12 ZB-DX1171742 |               |             |                  |                                 |           |  |                                                             |
|                                   |                                                                                                                          |                      |               |             |                  |                                 |           |  |                                                             |
| Target Analytes                   | TEF<br>(WHO 2005)                                                                                                        | Ret.<br>Time         | Conc.<br>pg/g | EDL<br>pg/g | Flags            | EMPC<br>pg/g                    | LQL       |  |                                                             |
| 2,3,7,8-TCDD                      | 1                                                                                                                        | 28.67                | <0.82         | 0.17        | J,R              | 0.82                            | 6.8       |  |                                                             |
| 1,2,3,7,8-PeCDD                   | 1                                                                                                                        | 31.64                | 5.46          | 0.19        | J                |                                 | 34        |  |                                                             |
| 1,2,3,4,7,8-HxCDD                 | 0.1                                                                                                                      | 33.87                | 1.81          | 0.18        | J                |                                 | 34        |  |                                                             |
| 1,2,3,6,7,8-HxCDD                 | 0.1                                                                                                                      | 33.95                | 3.00          | 0.18        | M,J              |                                 | 34        |  |                                                             |
| 1,2,3,7,8,9-HxCDD                 | 0.1                                                                                                                      | 34.14                | <1.3          | 0.17        | J,R              | 1.3                             | 34        |  |                                                             |
| 1,2,3,4,6,7,8-HpCDD               | 0.01                                                                                                                     | 36.46                | 4.86          | 0.13        | J                |                                 | 34        |  |                                                             |
| OCDD                              | 0.0003                                                                                                                   | 39.42                | 5.12          | 0.28        | J                |                                 | 68        |  |                                                             |
| 2,3,7,8-TCDF                      | 0.1                                                                                                                      | 28.14                | 1.32          | 0.26        | M,J              |                                 | 6.8       |  |                                                             |
| 1,2,3,7,8-PeCDF                   | 0.03                                                                                                                     | 30.91                | <1.4          | 0.46        | J,R              | 1.4                             | 34        |  |                                                             |
| 2,3,4,7,8-PeCDF                   | 0.3                                                                                                                      | 31.54                | 1.47          | 0.34        | J                |                                 | 34        |  |                                                             |
| 1,2,3,4,7,8-HxCDF                 | 0.1                                                                                                                      | 33.29                | <0.75         | 0.17        | J,R              | 0.75                            | 34        |  |                                                             |
| 1,2,3,6,7,8-HxCDF                 | 0.1                                                                                                                      | 33.39                | <1.0          | 0.22        | J,R              | 1.0                             | 34        |  |                                                             |
| 2,3,4,6,7,8-HxCDF                 | 0.1                                                                                                                      | 33.82                | <0.41         | 0.18        | M,J,R            | 0.41                            | 34        |  |                                                             |
| 1,2,3,7,8,9-HxCDF                 | 0.1                                                                                                                      | 34.55                | <0.23         | 0.23        | M,U              | 0.16                            | 34        |  |                                                             |
| 1,2,3,4,6,7,8-HpCDF               | 0.01                                                                                                                     | 35.50                | 1.25          | 0.18        | J                |                                 | 34        |  |                                                             |
| 1,2,3,4,7,8,9-HpCDF               | 0.01                                                                                                                     | 37.11                | <0.24         | 0.24        | M,U              | 0.13                            | 34        |  |                                                             |
| OCDF                              | 0.0003                                                                                                                   | 39.79                | 0.327         | 0.23        | M,J              |                                 | 68        |  |                                                             |
| Extraction Standards              | pg                                                                                                                       |                      | % Rec         | Limits      |                  |                                 |           |  |                                                             |
| 13C12-2,3,7,8-TCDD                | 4000                                                                                                                     | 28.64                | 76            | 25-164      |                  |                                 |           |  |                                                             |
| 13C12-1,2,3,7,8-PeCDD             | 4000                                                                                                                     | 31.64                | 78            | 25-181      |                  |                                 |           |  |                                                             |
| 13C12-1,2,3,4,7,8-HxCDD           | 4000                                                                                                                     | 33.86                | 86            | 32-141      |                  |                                 |           |  |                                                             |
| 13C12-1,2,3,6,7,8-HxCDD           | 4000                                                                                                                     | 33.93                | 85            | 28-130      |                  |                                 |           |  |                                                             |
| 13C12-1,2,3,4,6,7,8-HpCDD         | 4000                                                                                                                     | 36.45                | 94            | 23-140      |                  |                                 |           |  |                                                             |
| 13C12-OCDD                        | 8000                                                                                                                     | 39.41                | 91            | 17-157      |                  |                                 |           |  |                                                             |
| 13C12-2,3,7,8-TCDF                | 4000                                                                                                                     | 28.12                | 72            | 24-169      |                  |                                 |           |  |                                                             |
| 13C12-1,2,3,7,8-PeCDF             | 4000                                                                                                                     | 30.90                | 72            | 24-185      |                  |                                 |           |  |                                                             |
| 13C12-2,3,4,7,8-PeCDF             | 4000                                                                                                                     | 31.53                | 82            | 21-178      |                  |                                 |           |  |                                                             |
| 13C12-1,2,3,4,7,8-HxCDF           | 4000                                                                                                                     | 33.28                | 89            | 26-152      |                  |                                 |           |  |                                                             |
| 13C12-1,2,3,6,7,8-HxCDF           | 4000                                                                                                                     | 33.37                | 74            | 26-123      |                  |                                 |           |  |                                                             |
| 13C12-2,3,4,6,7,8-HxCDF           | 4000                                                                                                                     | 33.80                | 88            | 28-136      |                  |                                 |           |  |                                                             |
| 13C12-1,2,3,7,8,9-HxCDF           | 4000                                                                                                                     | 34.51                | 95            | 29-147      |                  |                                 |           |  |                                                             |
| 13C12-1,2,3,4,6,7,8-HpCDF         | 4000                                                                                                                     | 35.49                | 95            | 28-143      |                  |                                 |           |  |                                                             |
| 13C12-1,2,3,4,7,8,9-HpCDF         | 4000                                                                                                                     | 37.11                | 97            | 26-138      |                  |                                 |           |  |                                                             |
| Cleanup Standard                  | pg                                                                                                                       |                      |               |             |                  |                                 |           |  |                                                             |
| 37Cl4-2,3,7,8-TCDD (Cleanup)      | 80                                                                                                                       | 28.66                | 60            | 35-197      |                  |                                 |           |  |                                                             |
| Homologue Group Totals            |                                                                                                                          | # peaks              | Conc.<br>pg/g | EDL<br>pg/g |                  |                                 |           |  |                                                             |
| Total-TCDD                        |                                                                                                                          | 0                    | <0.17         | 0.17        | U                | 6.8                             |           |  |                                                             |
| Total-PeCDD                       |                                                                                                                          | 3                    | 6.26          | 0.19        |                  | 34                              |           |  |                                                             |
| Total-HxCDD                       |                                                                                                                          | 3                    | 7.84          | 0.18        |                  | 34                              |           |  |                                                             |
| Total-HpCDD                       |                                                                                                                          | 1                    | 4.86          | 0.13        |                  | 34                              |           |  |                                                             |
| Total-TCDF                        |                                                                                                                          | 4                    | 2.07          | 0.26        |                  | 6.8                             |           |  |                                                             |
| Total-PeCDF                       |                                                                                                                          | 5                    | 6.72          | 0.46        |                  | 34                              |           |  |                                                             |
| Total-HxCDF                       |                                                                                                                          | 2                    | 1.78          | 0.23        |                  | 34                              |           |  |                                                             |
| Total-HpCDF                       |                                                                                                                          | 2                    | 2.05          | 0.24        |                  | 34                              |           |  |                                                             |
|                                   |                                                                                                                          |                      |               |             |                  |                                 |           |  |                                                             |
| Toxic Equivalency - (WHO 2005)    |                                                                                                                          |                      | pg/g          |             |                  |                                 |           |  |                                                             |
| Lower Bound PCDD/F TEQ (WHO 2005) |                                                                                                                          |                      | 6.58          |             |                  |                                 |           |  |                                                             |
| Mid Point PCDD/F TEQ (WHO 2005)   |                                                                                                                          |                      | 7.80          |             |                  |                                 |           |  |                                                             |
| Upper Bound PCDD/F TEQ (WHO 2005) |                                                                                                                          |                      | 7.81          |             |                  |                                 |           |  |                                                             |
|                                   |                                                                                                                          |                      |               |             |                  |                                 |           |  |                                                             |
| EDL                               | Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.          |                      |               |             |                  |                                 |           |  |                                                             |
| TEF                               | Indicates the Toxic Equivalency Factor                                                                                   |                      |               |             | TEQ              | Indicates the Toxic Equivalency |           |  |                                                             |
| M                                 | Indicates that a peak has been manually integrated.                                                                      |                      |               |             |                  |                                 |           |  |                                                             |
| U                                 | Indicates that this compound was not detected above the EDL.                                                             |                      |               |             |                  |                                 |           |  |                                                             |
|                                   |                                                                                                                          |                      |               |             |                  |                                 |           |  |                                                             |
| J                                 | Indicates that a target analyte was detected below the calibrated range.                                                 |                      |               |             |                  |                                 |           |  |                                                             |
| R                                 | Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.                          |                      |               |             |                  |                                 |           |  |                                                             |
|                                   |                                                                                                                          |                      |               |             |                  |                                 |           |  |                                                             |
| LQL                               | Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.       |                      |               |             |                  |                                 |           |  |                                                             |
| EMPC                              | Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure |                      |               |             |                  |                                 |           |  |                                                             |

| ALS Life Sciences                 |  |                                                                                                                          |              |               |                  |                                 |              |     |                                                             |
|-----------------------------------|--|--------------------------------------------------------------------------------------------------------------------------|--------------|---------------|------------------|---------------------------------|--------------|-----|-------------------------------------------------------------|
| Sample Analysis Report            |  |                                                                                                                          |              |               |                  |                                 |              |     |                                                             |
| Sample Name                       |  | PLOT 71 - 5 JARS                                                                                                         |              |               | Sampling Date    |                                 | 25-May-24    |     | Approved:<br>M.Elchawiche<br>--e-signature--<br>26-Jul-2024 |
| ALS Sample ID                     |  | L2756078-4                                                                                                               |              |               | Extraction Date  |                                 | 6-Jul-24     |     |                                                             |
| Analysis Method                   |  | EPA 1613B                                                                                                                |              |               | Sample Size      |                                 | 2.77 g       |     |                                                             |
| Analysis Type                     |  | Sample                                                                                                                   |              |               | Percent Moisture |                                 | 72.6%        |     |                                                             |
| Sample Matrix                     |  | Tissue                                                                                                                   |              |               | Split Ratio      |                                 | 4            |     |                                                             |
| Run Information                   |  | Run 1                                                                                                                    |              |               |                  |                                 |              |     |                                                             |
| Filename                          |  | 12-240715A22                                                                                                             |              |               |                  |                                 |              |     |                                                             |
| Run Date                          |  | 15-Jul-24 23:25                                                                                                          |              |               |                  |                                 |              |     |                                                             |
| Final Volume                      |  | 10 uL                                                                                                                    |              |               |                  |                                 |              |     |                                                             |
| Dilution Factor                   |  | 1                                                                                                                        |              |               |                  |                                 |              |     |                                                             |
| Analysis Units                    |  | pg/g                                                                                                                     |              |               |                  |                                 |              |     |                                                             |
| Instrument - Column               |  | HRMS-12 ZB-DX1171742                                                                                                     |              |               |                  |                                 |              |     |                                                             |
|                                   |  |                                                                                                                          |              |               |                  |                                 |              |     |                                                             |
| Target Analytes                   |  | TEF<br>(WHO 2005)                                                                                                        | Ret.<br>Time | Conc.<br>pg/g | EDL<br>pg/g      | Flags                           | EMPC<br>pg/g | LQL |                                                             |
| 2,3,7,8-TCDD                      |  | 1                                                                                                                        | 28.67        | 0.240         | 0.14             | M,J                             |              | 7.2 |                                                             |
| 1,2,3,7,8-PeCDD                   |  | 1                                                                                                                        | 31.64        | 1.68          | 0.28             | J                               |              | 36  |                                                             |
| 1,2,3,4,7,8-HxCDD                 |  | 0.1                                                                                                                      | 33.86        | <0.58         | 0.44             | J,R                             | 0.58         | 36  |                                                             |
| 1,2,3,6,7,8-HxCDD                 |  | 0.1                                                                                                                      | 33.93        | <1.0          | 0.41             | J,R                             | 1.0          | 36  |                                                             |
| 1,2,3,7,8,9-HxCDD                 |  | 0.1                                                                                                                      | 34.14        | <0.68         | 0.42             | J,R                             | 0.68         | 36  |                                                             |
| 1,2,3,4,6,7,8-HpCDD               |  | 0.01                                                                                                                     | 36.46        | 2.63          | 0.19             | J                               |              | 36  |                                                             |
| OCDD                              |  | 0.0003                                                                                                                   | 39.42        | <2.4          | 0.33             | M,J,R                           | 2.4          | 72  |                                                             |
| 2,3,7,8-TCDF                      |  | 0.1                                                                                                                      | 28.12        | <0.34         | 0.24             | M,J,R                           | 0.34         | 7.2 |                                                             |
| 1,2,3,7,8-PeCDF                   |  | 0.03                                                                                                                     | 30.91        | 0.774         | 0.26             | M,J,B                           |              | 36  |                                                             |
| 2,3,4,7,8-PeCDF                   |  | 0.3                                                                                                                      | 31.53        | <0.57         | 0.21             | M,J,R                           | 0.57         | 36  |                                                             |
| 1,2,3,4,7,8-HxCDF                 |  | 0.1                                                                                                                      | 33.29        | <0.34         | 0.13             | J,R                             | 0.34         | 36  |                                                             |
| 1,2,3,6,7,8-HxCDF                 |  | 0.1                                                                                                                      | 33.39        | 0.473         | 0.14             | J                               |              | 36  |                                                             |
| 2,3,4,6,7,8-HxCDF                 |  | 0.1                                                                                                                      | 33.82        | <0.33         | 0.13             | M,J,R                           | 0.33         | 36  |                                                             |
| 1,2,3,7,8,9-HxCDF                 |  | 0.1                                                                                                                      | 34.56        | 0.279         | 0.16             | M,J                             |              | 36  |                                                             |
| 1,2,3,4,6,7,8-HpCDF               |  | 0.01                                                                                                                     | 35.50        | <0.57         | 0.33             | J,R                             | 0.57         | 36  |                                                             |
| 1,2,3,4,7,8,9-HpCDF               |  | 0.01                                                                                                                     | NotFnd       | <0.46         | 0.46             | U                               |              | 36  |                                                             |
| OCDF                              |  | 0.0003                                                                                                                   | 39.75        | <0.30         | 0.30             | M,U                             | 0.18         | 72  |                                                             |
| Extraction Standards              |  | pg                                                                                                                       |              | % Rec         | Limits           |                                 |              |     |                                                             |
| 13C12-2,3,7,8-TCDD                |  | 4000                                                                                                                     | 28.63        | 73            | 25-164           |                                 |              |     |                                                             |
| 13C12-1,2,3,7,8-PeCDD             |  | 4000                                                                                                                     | 31.63        | 68            | 25-181           |                                 |              |     |                                                             |
| 13C12-1,2,3,4,7,8-HxCDD           |  | 4000                                                                                                                     | 33.86        | 83            | 32-141           |                                 |              |     |                                                             |
| 13C12-1,2,3,6,7,8-HxCDD           |  | 4000                                                                                                                     | 33.93        | 82            | 28-130           |                                 |              |     |                                                             |
| 13C12-1,2,3,4,6,7,8-HpCDD         |  | 4000                                                                                                                     | 36.45        | 90            | 23-140           |                                 |              |     |                                                             |
| 13C12-OCDD                        |  | 8000                                                                                                                     | 39.41        | 91            | 17-157           |                                 |              |     |                                                             |
| 13C12-2,3,7,8-TCDF                |  | 4000                                                                                                                     | 28.12        | 66            | 24-169           |                                 |              |     |                                                             |
| 13C12-1,2,3,7,8-PeCDF             |  | 4000                                                                                                                     | 30.90        | 64            | 24-185           |                                 |              |     |                                                             |
| 13C12-2,3,4,7,8-PeCDF             |  | 4000                                                                                                                     | 31.53        | 70            | 21-178           |                                 |              |     |                                                             |
| 13C12-1,2,3,4,7,8-HxCDF           |  | 4000                                                                                                                     | 33.28        | 83            | 26-152           |                                 |              |     |                                                             |
| 13C12-1,2,3,6,7,8-HxCDF           |  | 4000                                                                                                                     | 33.37        | 80            | 26-123           |                                 |              |     |                                                             |
| 13C12-2,3,4,6,7,8-HxCDF           |  | 4000                                                                                                                     | 33.80        | 84            | 28-136           |                                 |              |     |                                                             |
| 13C12-1,2,3,7,8,9-HxCDF           |  | 4000                                                                                                                     | 34.51        | 94            | 29-147           |                                 |              |     |                                                             |
| 13C12-1,2,3,4,6,7,8-HpCDF         |  | 4000                                                                                                                     | 35.49        | 91            | 28-143           |                                 |              |     |                                                             |
| 13C12-1,2,3,4,7,8,9-HpCDF         |  | 4000                                                                                                                     | 37.11        | 94            | 26-138           |                                 |              |     |                                                             |
| Cleanup Standard                  |  | pg                                                                                                                       |              |               |                  |                                 |              |     |                                                             |
| 37Cl4-2,3,7,8-TCDD (Cleanup)      |  | 80                                                                                                                       | 28.64        | 60            | 35-197           |                                 |              |     |                                                             |
| Homologue Group Totals            |  | # peaks                                                                                                                  |              | Conc.<br>pg/g | EDL<br>pg/g      |                                 |              |     |                                                             |
| Total-TCDD                        |  | 2                                                                                                                        |              | 0.521         | 0.14             | 7.2                             |              |     |                                                             |
| Total-PeCDD                       |  | 1                                                                                                                        |              | 1.68          | 0.28             | 36                              |              |     |                                                             |
| Total-HxCDD                       |  | 1                                                                                                                        |              | 1.35          | 0.44             | 36                              |              |     |                                                             |
| Total-HpCDD                       |  | 1                                                                                                                        |              | 2.63          | 0.19             | 36                              |              |     |                                                             |
| Total-TCDF                        |  | 2                                                                                                                        |              | 0.349         | 0.24             | 7.2                             |              |     |                                                             |
| Total-PeCDF                       |  | 3                                                                                                                        |              | 2.86          | 0.26             | 36                              |              |     |                                                             |
| Total-HxCDF                       |  | 2                                                                                                                        |              | 0.752         | 0.16             | 36                              |              |     |                                                             |
| Total-HpCDF                       |  | 0                                                                                                                        |              | <0.46         | 0.46             | U                               | 36           |     |                                                             |
|                                   |  |                                                                                                                          |              |               |                  |                                 |              |     |                                                             |
| Toxic Equivalency - (WHO 2005)    |  |                                                                                                                          |              | pg/g          |                  |                                 |              |     |                                                             |
| Lower Bound PCDD/F TEQ (WHO 2005) |  |                                                                                                                          |              | 2.04          |                  |                                 |              |     |                                                             |
| Mid Point PCDD/F TEQ (WHO 2005)   |  |                                                                                                                          |              | 2.55          |                  |                                 |              |     |                                                             |
| Upper Bound PCDD/F TEQ (WHO 2005) |  |                                                                                                                          |              | 2.55          |                  |                                 |              |     |                                                             |
|                                   |  |                                                                                                                          |              |               |                  |                                 |              |     |                                                             |
| EDL                               |  | Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.          |              |               |                  |                                 |              |     |                                                             |
| TEF                               |  | Indicates the Toxic Equivalency Factor                                                                                   |              |               | TEQ              | Indicates the Toxic Equivalency |              |     |                                                             |
| M                                 |  | Indicates that a peak has been manually integrated.                                                                      |              |               |                  |                                 |              |     |                                                             |
| U                                 |  | Indicates that this compound was not detected above the EDL.                                                             |              |               |                  |                                 |              |     |                                                             |
|                                   |  |                                                                                                                          |              |               |                  |                                 |              |     |                                                             |
| J                                 |  | Indicates that a target analyte was detected below the calibrated range.                                                 |              |               |                  |                                 |              |     |                                                             |
| R                                 |  | Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.                          |              |               |                  |                                 |              |     |                                                             |
| B                                 |  | Indicates that this target was detected in the blank at greater than 10% of the sample concentration.                    |              |               |                  |                                 |              |     |                                                             |
| LQL                               |  | Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.       |              |               |                  |                                 |              |     |                                                             |
| EMPC                              |  | Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure |              |               |                  |                                 |              |     |                                                             |

| ALS Life Sciences                 |                                                                                                                          |                      |            |          |                  |                                 |           |  |                                                             |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------|----------------------|------------|----------|------------------|---------------------------------|-----------|--|-------------------------------------------------------------|
| Sample Analysis Report            |                                                                                                                          |                      |            |          |                  |                                 |           |  |                                                             |
| Sample Name                       |                                                                                                                          | PLOT 109 - 5 JARS    |            |          | Sampling Date    |                                 | 25-May-24 |  | Approved:<br>M.Elchawiche<br>--e-signature--<br>26-Jul-2024 |
| ALS Sample ID                     |                                                                                                                          | L2756078-5           |            |          | Extraction Date  |                                 | 6-Jul-24  |  |                                                             |
| Analysis Method                   |                                                                                                                          | EPA 1613B            |            |          | Sample Size      |                                 | 2.89 g    |  |                                                             |
| Analysis Type                     |                                                                                                                          | Sample               |            |          | Percent Moisture |                                 | 71.9%     |  |                                                             |
| Sample Matrix                     |                                                                                                                          | Tissue               |            |          | Split Ratio      |                                 | 4         |  |                                                             |
| Run Information                   |                                                                                                                          | Run 1                |            |          |                  |                                 |           |  |                                                             |
| Filename                          |                                                                                                                          | 12-240715A23         |            |          |                  |                                 |           |  |                                                             |
| Run Date                          |                                                                                                                          | 16-Jul-24 00:10      |            |          |                  |                                 |           |  |                                                             |
| Final Volume                      |                                                                                                                          | 10 uL                |            |          |                  |                                 |           |  |                                                             |
| Dilution Factor                   |                                                                                                                          | 1                    |            |          |                  |                                 |           |  |                                                             |
| Analysis Units                    |                                                                                                                          | pg/g                 |            |          |                  |                                 |           |  |                                                             |
| Instrument - Column               |                                                                                                                          | HRMS-12 ZB-DX1171742 |            |          |                  |                                 |           |  |                                                             |
|                                   |                                                                                                                          |                      |            |          |                  |                                 |           |  |                                                             |
| Target Analytes                   | TEF (WHO 2005)                                                                                                           | Ret. Time            | Conc. pg/g | EDL pg/g | Flags            | EMPC pg/g                       | LQL       |  |                                                             |
| 2,3,7,8-TCDD                      | 1                                                                                                                        | 28.66                | 0.439      | 0.27     | J                |                                 | 6.9       |  |                                                             |
| 1,2,3,7,8-PeCDD                   | 1                                                                                                                        | 31.66                | 3.63       | 0.31     | J                |                                 | 35        |  |                                                             |
| 1,2,3,4,7,8-HxCDD                 | 0.1                                                                                                                      | 33.88                | 1.80       | 0.16     | J                |                                 | 35        |  |                                                             |
| 1,2,3,6,7,8-HxCDD                 | 0.1                                                                                                                      | 33.96                | <3.1       | 0.16     | J,R              | 3.1                             | 35        |  |                                                             |
| 1,2,3,7,8,9-HxCDD                 | 0.1                                                                                                                      | 34.14                | <1.7       | 0.15     | M,J,R            | 1.7                             | 35        |  |                                                             |
| 1,2,3,4,6,7,8-HpCDD               | 0.01                                                                                                                     | 36.48                | 6.74       | 0.27     | J                |                                 | 35        |  |                                                             |
| OCDD                              | 0.0003                                                                                                                   | 39.44                | 6.15       | 0.76     | J                |                                 | 69        |  |                                                             |
|                                   |                                                                                                                          |                      |            |          |                  |                                 |           |  |                                                             |
| 2,3,7,8-TCDF                      | 0.1                                                                                                                      | 28.14                | 21.6       | 0.41     |                  |                                 | 6.9       |  |                                                             |
| 1,2,3,7,8-PeCDF                   | 0.03                                                                                                                     | 30.93                | 13.6       | 0.35     | J                |                                 | 35        |  |                                                             |
| 2,3,4,7,8-PeCDF                   | 0.3                                                                                                                      | 31.56                | 24.4       | 0.28     | J                |                                 | 35        |  |                                                             |
| 1,2,3,4,7,8-HxCDF                 | 0.1                                                                                                                      | 33.31                | 5.16       | 0.18     | J                |                                 | 35        |  |                                                             |
| 1,2,3,6,7,8-HxCDF                 | 0.1                                                                                                                      | 33.40                | 5.32       | 0.22     | J                |                                 | 35        |  |                                                             |
| 2,3,4,6,7,8-HxCDF                 | 0.1                                                                                                                      | 33.83                | 9.55       | 0.19     | J                |                                 | 35        |  |                                                             |
| 1,2,3,7,8,9-HxCDF                 | 0.1                                                                                                                      | 34.55                | <0.27      | 0.24     | M,J,R            | 0.27                            | 35        |  |                                                             |
| 1,2,3,4,6,7,8-HpCDF               | 0.01                                                                                                                     | 35.51                | 6.83       | 0.14     | J                |                                 | 35        |  |                                                             |
| 1,2,3,4,7,8,9-HpCDF               | 0.01                                                                                                                     | 37.14                | <0.56      | 0.20     | J,R              | 0.56                            | 35        |  |                                                             |
| OCDF                              | 0.0003                                                                                                                   | 39.85                | <1.4       | 0.40     | M,J,R            | 1.4                             | 69        |  |                                                             |
| Extraction Standards              | pg                                                                                                                       |                      | % Rec      | Limits   |                  |                                 |           |  |                                                             |
| 13C12-2,3,7,8-TCDD                | 4000                                                                                                                     | 28.64                | 62         | 25-164   |                  |                                 |           |  |                                                             |
| 13C12-1,2,3,7,8-PeCDD             | 4000                                                                                                                     | 31.64                | 65         | 25-181   |                  |                                 |           |  |                                                             |
| 13C12-1,2,3,4,7,8-HxCDD           | 4000                                                                                                                     | 33.87                | 71         | 32-141   |                  |                                 |           |  |                                                             |
| 13C12-1,2,3,6,7,8-HxCDD           | 4000                                                                                                                     | 33.95                | 70         | 28-130   |                  |                                 |           |  |                                                             |
| 13C12-1,2,3,4,6,7,8-HpCDD         | 4000                                                                                                                     | 36.47                | 76         | 23-140   |                  |                                 |           |  |                                                             |
| 13C12-OCDD                        | 8000                                                                                                                     | 39.43                | 72         | 17-157   |                  |                                 |           |  |                                                             |
|                                   |                                                                                                                          |                      |            |          |                  |                                 |           |  |                                                             |
| 13C12-2,3,7,8-TCDF                | 4000                                                                                                                     | 28.13                | 60         | 24-169   |                  |                                 |           |  |                                                             |
| 13C12-1,2,3,7,8-PeCDF             | 4000                                                                                                                     | 30.91                | 59         | 24-185   |                  |                                 |           |  |                                                             |
| 13C12-2,3,4,7,8-PeCDF             | 4000                                                                                                                     | 31.54                | 67         | 21-178   |                  |                                 |           |  |                                                             |
| 13C12-1,2,3,4,7,8-HxCDF           | 4000                                                                                                                     | 33.29                | 70         | 26-152   |                  |                                 |           |  |                                                             |
| 13C12-1,2,3,6,7,8-HxCDF           | 4000                                                                                                                     | 33.38                | 64         | 26-123   |                  |                                 |           |  |                                                             |
| 13C12-2,3,4,6,7,8-HxCDF           | 4000                                                                                                                     | 33.81                | 70         | 28-136   |                  |                                 |           |  |                                                             |
| 13C12-1,2,3,7,8,9-HxCDF           | 4000                                                                                                                     | 34.52                | 76         | 29-147   |                  |                                 |           |  |                                                             |
| 13C12-1,2,3,4,6,7,8-HpCDF         | 4000                                                                                                                     | 35.51                | 76         | 28-143   |                  |                                 |           |  |                                                             |
| 13C12-1,2,3,4,7,8,9-HpCDF         | 4000                                                                                                                     | 37.14                | 75         | 26-138   |                  |                                 |           |  |                                                             |
| Cleanup Standard                  | pg                                                                                                                       |                      |            |          |                  |                                 |           |  |                                                             |
| 37Cl4-2,3,7,8-TCDD (Cleanup)      | 80                                                                                                                       | 28.67                | 64         | 35-197   |                  |                                 |           |  |                                                             |
|                                   |                                                                                                                          |                      |            |          |                  |                                 |           |  |                                                             |
| Homologue Group Totals            |                                                                                                                          | # peaks              | Conc. pg/g | EDL pg/g |                  |                                 |           |  |                                                             |
| Total-TCDD                        |                                                                                                                          | 1                    | 0.439      | 0.27     | 6.9              |                                 |           |  |                                                             |
| Total-PeCDD                       |                                                                                                                          | 2                    | 4.66       | 0.31     | 35               |                                 |           |  |                                                             |
| Total-HxCDD                       |                                                                                                                          | 3                    | 4.94       | 0.16     | 35               |                                 |           |  |                                                             |
| Total-HpCDD                       |                                                                                                                          | 2                    | 9.55       | 0.27     | 35               |                                 |           |  |                                                             |
| Total-TCDF                        |                                                                                                                          | 7                    | 27.2       | 0.41     | 6.9              |                                 |           |  |                                                             |
| Total-PeCDF                       |                                                                                                                          | 2                    | 38.0       | 0.35     | 35               |                                 |           |  |                                                             |
| Total-HxCDF                       |                                                                                                                          | 9                    | 31.6       | 0.24     | 35               |                                 |           |  |                                                             |
| Total-HpCDF                       |                                                                                                                          | 2                    | 8.74       | 0.20     | 35               |                                 |           |  |                                                             |
|                                   |                                                                                                                          |                      |            |          |                  |                                 |           |  |                                                             |
| Toxic Equivalency - (WHO 2005)    |                                                                                                                          |                      | pg/g       |          |                  |                                 |           |  |                                                             |
| Lower Bound PCDD/F TEQ (WHO 2005) |                                                                                                                          |                      | 16.3       |          |                  |                                 |           |  |                                                             |
| Mid Point PCDD/F TEQ (WHO 2005)   |                                                                                                                          |                      | 16.8       |          |                  |                                 |           |  |                                                             |
| Upper Bound PCDD/F TEQ (WHO 2005) |                                                                                                                          |                      | 16.8       |          |                  |                                 |           |  |                                                             |
|                                   |                                                                                                                          |                      |            |          |                  |                                 |           |  |                                                             |
| EDL                               | Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.          |                      |            |          |                  |                                 |           |  |                                                             |
| TEF                               | Indicates the Toxic Equivalency Factor                                                                                   |                      |            |          | TEQ              | Indicates the Toxic Equivalency |           |  |                                                             |
| M                                 | Indicates that a peak has been manually integrated.                                                                      |                      |            |          |                  |                                 |           |  |                                                             |
|                                   |                                                                                                                          |                      |            |          |                  |                                 |           |  |                                                             |
| J                                 | Indicates that a target analyte was detected below the calibrated range.                                                 |                      |            |          |                  |                                 |           |  |                                                             |
| R                                 | Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.                          |                      |            |          |                  |                                 |           |  |                                                             |
|                                   |                                                                                                                          |                      |            |          |                  |                                 |           |  |                                                             |
| LQL                               | Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.       |                      |            |          |                  |                                 |           |  |                                                             |
| EMPC                              | Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure |                      |            |          |                  |                                 |           |  |                                                             |



| ALS Life Sciences                 |  |                                                                                                                          |              |                      |                  |       |                                 |     |                                                             |
|-----------------------------------|--|--------------------------------------------------------------------------------------------------------------------------|--------------|----------------------|------------------|-------|---------------------------------|-----|-------------------------------------------------------------|
| Sample Analysis Report            |  |                                                                                                                          |              |                      |                  |       |                                 |     |                                                             |
| Sample Name                       |  | PLOT 110 - 4 JARS                                                                                                        |              |                      | Sampling Date    |       | 25-May-24                       |     | Approved:<br>M.Elchawiche<br>--e-signature--<br>26-Jul-2024 |
| ALS Sample ID                     |  | L2756078-6                                                                                                               |              |                      | Extraction Date  |       | 6-Jul-24                        |     |                                                             |
| Analysis Method                   |  | EPA 1613B                                                                                                                |              |                      | Sample Size      |       | 2.95 g                          |     |                                                             |
| Analysis Type                     |  | Sample                                                                                                                   |              |                      | Percent Moisture |       | 71.5%                           |     |                                                             |
| Sample Matrix                     |  | Tissue                                                                                                                   |              |                      | Split Ratio      |       | 4                               |     |                                                             |
| Run Information                   |  |                                                                                                                          |              | Run 1                |                  |       |                                 |     |                                                             |
| Filename                          |  |                                                                                                                          |              | 12-240715A24         |                  |       |                                 |     |                                                             |
| Run Date                          |  |                                                                                                                          |              | 16-Jul-24 00:55      |                  |       |                                 |     |                                                             |
| Final Volume                      |  |                                                                                                                          |              | 10 uL                |                  |       |                                 |     |                                                             |
| Dilution Factor                   |  |                                                                                                                          |              | 1                    |                  |       |                                 |     |                                                             |
| Analysis Units                    |  |                                                                                                                          |              | pg/g                 |                  |       |                                 |     |                                                             |
| Instrument - Column               |  |                                                                                                                          |              | HRMS-12 ZB-DX1171742 |                  |       |                                 |     |                                                             |
|                                   |  |                                                                                                                          |              |                      |                  |       |                                 |     |                                                             |
| Target Analytes                   |  | TEF<br>(WHO 2005)                                                                                                        | Ret.<br>Time | Conc.<br>pg/g        | EDL<br>pg/g      | Flags | EMPC<br>pg/g                    | LQL |                                                             |
| 2,3,7,8-TCDD                      |  | 1                                                                                                                        | 28.66        | <0.26                | 0.19             | J,R   | 0.26                            | 6.8 |                                                             |
| 1,2,3,7,8-PeCDD                   |  | 1                                                                                                                        | 31.65        | <1.7                 | 0.18             | J,R   | 1.7                             | 34  |                                                             |
| 1,2,3,4,7,8-HxCDD                 |  | 0.1                                                                                                                      | 33.87        | 1.13                 | 0.34             | J     |                                 | 34  |                                                             |
| 1,2,3,6,7,8-HxCDD                 |  | 0.1                                                                                                                      | 33.96        | 1.70                 | 0.36             | J     |                                 | 34  |                                                             |
| 1,2,3,7,8,9-HxCDD                 |  | 0.1                                                                                                                      | 34.15        | <0.78                | 0.34             | J,R   | 0.78                            | 34  |                                                             |
| 1,2,3,4,6,7,8-HpCDD               |  | 0.01                                                                                                                     | 36.47        | 4.21                 | 0.18             | J     |                                 | 34  |                                                             |
| OCDD                              |  | 0.0003                                                                                                                   | 39.43        | 4.46                 | 0.37             | M,J   |                                 | 68  |                                                             |
| 2,3,7,8-TCDF                      |  | 0.1                                                                                                                      | 28.14        | 11.7                 | 0.41             |       |                                 | 6.8 |                                                             |
| 1,2,3,7,8-PeCDF                   |  | 0.03                                                                                                                     | 30.91        | <3.1                 | 0.26             | J,R   | 3.1                             | 34  |                                                             |
| 2,3,4,7,8-PeCDF                   |  | 0.3                                                                                                                      | 31.54        | <7.1                 | 0.22             | J,R   | 7.1                             | 34  |                                                             |
| 1,2,3,4,7,8-HxCDF                 |  | 0.1                                                                                                                      | 33.29        | 1.45                 | 0.19             | J     |                                 | 34  |                                                             |
| 1,2,3,6,7,8-HxCDF                 |  | 0.1                                                                                                                      | 33.39        | 1.34                 | 0.20             | J     |                                 | 34  |                                                             |
| 2,3,4,6,7,8-HxCDF                 |  | 0.1                                                                                                                      | 33.82        | 1.83                 | 0.19             | M,J   |                                 | 34  |                                                             |
| 1,2,3,7,8,9-HxCDF                 |  | 0.1                                                                                                                      | 34.55        | <0.23                | 0.23             | M,U   | 0.19                            | 34  |                                                             |
| 1,2,3,4,6,7,8-HpCDF               |  | 0.01                                                                                                                     | 35.51        | 1.50                 | 0.14             | J     |                                 | 34  |                                                             |
| 1,2,3,4,7,8,9-HpCDF               |  | 0.01                                                                                                                     | 37.14        | <0.20                | 0.20             | M,U   | 0.10                            | 34  |                                                             |
| OCDF                              |  | 0.0003                                                                                                                   | 39.82        | <0.35                | 0.27             | M,J,R | 0.35                            | 68  |                                                             |
| Extraction Standards              |  | pg                                                                                                                       |              | % Rec                | Limits           |       |                                 |     |                                                             |
| 13C12-2,3,7,8-TCDD                |  | 4000                                                                                                                     | 28.64        | 55                   | 25-164           |       |                                 |     |                                                             |
| 13C12-1,2,3,7,8-PeCDD             |  | 4000                                                                                                                     | 31.64        | 58                   | 25-181           |       |                                 |     |                                                             |
| 13C12-1,2,3,4,7,8-HxCDD           |  | 4000                                                                                                                     | 33.86        | 63                   | 32-141           |       |                                 |     |                                                             |
| 13C12-1,2,3,6,7,8-HxCDD           |  | 4000                                                                                                                     | 33.95        | 64                   | 28-130           |       |                                 |     |                                                             |
| 13C12-1,2,3,4,6,7,8-HpCDD         |  | 4000                                                                                                                     | 36.46        | 70                   | 23-140           |       |                                 |     |                                                             |
| 13C12-OCDD                        |  | 8000                                                                                                                     | 39.42        | 69                   | 17-157           |       |                                 |     |                                                             |
| 13C12-2,3,7,8-TCDF                |  | 4000                                                                                                                     | 28.12        | 54                   | 24-169           |       |                                 |     |                                                             |
| 13C12-1,2,3,7,8-PeCDF             |  | 4000                                                                                                                     | 30.91        | 53                   | 24-185           |       |                                 |     |                                                             |
| 13C12-2,3,4,7,8-PeCDF             |  | 4000                                                                                                                     | 31.53        | 58                   | 21-178           |       |                                 |     |                                                             |
| 13C12-1,2,3,4,7,8-HxCDF           |  | 4000                                                                                                                     | 33.28        | 65                   | 26-152           |       |                                 |     |                                                             |
| 13C12-1,2,3,6,7,8-HxCDF           |  | 4000                                                                                                                     | 33.38        | 62                   | 26-123           |       |                                 |     |                                                             |
| 13C12-2,3,4,6,7,8-HxCDF           |  | 4000                                                                                                                     | 33.81        | 65                   | 28-136           |       |                                 |     |                                                             |
| 13C12-1,2,3,7,8,9-HxCDF           |  | 4000                                                                                                                     | 34.52        | 73                   | 29-147           |       |                                 |     |                                                             |
| 13C12-1,2,3,4,6,7,8-HpCDF         |  | 4000                                                                                                                     | 35.50        | 71                   | 28-143           |       |                                 |     |                                                             |
| 13C12-1,2,3,4,7,8,9-HpCDF         |  | 4000                                                                                                                     | 37.12        | 72                   | 26-138           |       |                                 |     |                                                             |
| Cleanup Standard                  |  | pg                                                                                                                       |              |                      |                  |       |                                 |     |                                                             |
| 37Cl4-2,3,7,8-TCDD (Cleanup)      |  | 80                                                                                                                       | 28.66        | 47                   | 35-197           |       |                                 |     |                                                             |
| Homologue Group Totals            |  |                                                                                                                          | # peaks      | Conc.<br>pg/g        | EDL<br>pg/g      |       |                                 |     |                                                             |
| Total-TCDD                        |  |                                                                                                                          | 0            | <0.19                | 0.19             | U     | 6.8                             |     |                                                             |
| Total-PeCDD                       |  |                                                                                                                          | 2            | 1.34                 | 0.18             |       | 34                              |     |                                                             |
| Total-HxCDD                       |  |                                                                                                                          | 3            | 4.85                 | 0.36             |       | 34                              |     |                                                             |
| Total-HpCDD                       |  |                                                                                                                          | 2            | 6.42                 | 0.18             |       | 34                              |     |                                                             |
| Total-TCDF                        |  |                                                                                                                          | 6            | 12.7                 | 0.41             |       | 6.8                             |     |                                                             |
| Total-PeCDF                       |  |                                                                                                                          | 2            | 3.08                 | 0.26             |       | 34                              |     |                                                             |
| Total-HxCDF                       |  |                                                                                                                          | 5            | 5.87                 | 0.23             |       | 34                              |     |                                                             |
| Total-HpCDF                       |  |                                                                                                                          | 1            | 1.50                 | 0.20             |       | 34                              |     |                                                             |
|                                   |  |                                                                                                                          |              |                      |                  |       |                                 |     |                                                             |
| Toxic Equivalency - (WHO 2005)    |  |                                                                                                                          |              | pg/g                 |                  |       |                                 |     |                                                             |
| Lower Bound PCDD/F TEQ (WHO 2005) |  |                                                                                                                          |              | 1.97                 |                  |       |                                 |     |                                                             |
| Mid Point PCDD/F TEQ (WHO 2005)   |  |                                                                                                                          |              | 6.25                 |                  |       |                                 |     |                                                             |
| Upper Bound PCDD/F TEQ (WHO 2005) |  |                                                                                                                          |              | 6.26                 |                  |       |                                 |     |                                                             |
|                                   |  |                                                                                                                          |              |                      |                  |       |                                 |     |                                                             |
| EDL                               |  | Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.          |              |                      |                  |       |                                 |     |                                                             |
| TEF                               |  | Indicates the Toxic Equivalency Factor                                                                                   |              |                      | TEQ              |       | Indicates the Toxic Equivalency |     |                                                             |
| M                                 |  | Indicates that a peak has been manually integrated.                                                                      |              |                      |                  |       |                                 |     |                                                             |
| U                                 |  | Indicates that this compound was not detected above the EDL.                                                             |              |                      |                  |       |                                 |     |                                                             |
|                                   |  |                                                                                                                          |              |                      |                  |       |                                 |     |                                                             |
| J                                 |  | Indicates that a target analyte was detected below the calibrated range.                                                 |              |                      |                  |       |                                 |     |                                                             |
| R                                 |  | Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.                          |              |                      |                  |       |                                 |     |                                                             |
|                                   |  |                                                                                                                          |              |                      |                  |       |                                 |     |                                                             |
| LQL                               |  | Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.       |              |                      |                  |       |                                 |     |                                                             |
| EMPC                              |  | Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure |              |                      |                  |       |                                 |     |                                                             |

| ALS Life Sciences                 |  |                                                                                                                          |              |               |                  |       |                                 |     |                                                             |
|-----------------------------------|--|--------------------------------------------------------------------------------------------------------------------------|--------------|---------------|------------------|-------|---------------------------------|-----|-------------------------------------------------------------|
| Sample Analysis Report            |  |                                                                                                                          |              |               |                  |       |                                 |     |                                                             |
| Sample Name                       |  | PLOT 114 - 4 JARS                                                                                                        |              |               | Sampling Date    |       | 25-May-24                       |     | Approved:<br>M.Elchawiche<br>--e-signature--<br>26-Jul-2024 |
| ALS Sample ID                     |  | L2756078-7                                                                                                               |              |               | Extraction Date  |       | 6-Jul-24                        |     |                                                             |
| Analysis Method                   |  | EPA 1613B                                                                                                                |              |               | Sample Size      |       | 2.97 g                          |     |                                                             |
| Analysis Type                     |  | Sample                                                                                                                   |              |               | Percent Moisture |       | 71.5%                           |     |                                                             |
| Sample Matrix                     |  | Tissue                                                                                                                   |              |               | Split Ratio      |       | 4                               |     |                                                             |
|                                   |  |                                                                                                                          |              |               |                  |       |                                 |     |                                                             |
| Run Information                   |  | Run 1                                                                                                                    |              |               |                  |       |                                 |     |                                                             |
| Filename                          |  | 12-240715A25                                                                                                             |              |               |                  |       |                                 |     |                                                             |
| Run Date                          |  | 16-Jul-24 01:41                                                                                                          |              |               |                  |       |                                 |     |                                                             |
| Final Volume                      |  | 10 uL                                                                                                                    |              |               |                  |       |                                 |     |                                                             |
| Dilution Factor                   |  | 1                                                                                                                        |              |               |                  |       |                                 |     |                                                             |
| Analysis Units                    |  | pg/g                                                                                                                     |              |               |                  |       |                                 |     |                                                             |
| Instrument - Column               |  | HRMS-12 ZB-DX1171742                                                                                                     |              |               |                  |       |                                 |     |                                                             |
|                                   |  |                                                                                                                          |              |               |                  |       |                                 |     |                                                             |
| Target Analytes                   |  | TEF<br>(WHO 2005)                                                                                                        | Ret.<br>Time | Conc.<br>pg/g | EDL<br>pg/g      | Flags | EMPC<br>pg/g                    | LQL |                                                             |
| 2,3,7,8-TCDD                      |  | 1                                                                                                                        | 28.66        | 0.259         | 0.26             | M,J   |                                 | 6.7 |                                                             |
| 1,2,3,7,8-PeCDD                   |  | 1                                                                                                                        | 31.65        | <1.6          | 0.23             | M,J,R | 1.6                             | 34  |                                                             |
| 1,2,3,4,7,8-HxCDD                 |  | 0.1                                                                                                                      | 33.87        | <0.52         | 0.39             | M,J,R | 0.52                            | 34  |                                                             |
| 1,2,3,6,7,8-HxCDD                 |  | 0.1                                                                                                                      | 33.95        | 1.23          | 0.39             | J     |                                 | 34  |                                                             |
| 1,2,3,7,8,9-HxCDD                 |  | 0.1                                                                                                                      | 34.14        | 0.766         | 0.38             | J     |                                 | 34  |                                                             |
| 1,2,3,4,6,7,8-HpCDD               |  | 0.01                                                                                                                     | 36.47        | 4.03          | 0.39             | J     |                                 | 34  |                                                             |
| OCDD                              |  | 0.0003                                                                                                                   | 39.43        | <4.2          | 0.38             | J,R   | 4.2                             | 67  |                                                             |
| 2,3,7,8-TCDF                      |  | 0.1                                                                                                                      | 28.13        | 7.57          | 0.61             | M     |                                 | 6.7 |                                                             |
| 1,2,3,7,8-PeCDF                   |  | 0.03                                                                                                                     | 30.91        | 3.52          | 0.31             | J,B   |                                 | 34  |                                                             |
| 2,3,4,7,8-PeCDF                   |  | 0.3                                                                                                                      | 31.54        | 5.68          | 0.23             | J     |                                 | 34  |                                                             |
| 1,2,3,4,7,8-HxCDF                 |  | 0.1                                                                                                                      | 33.29        | <1.1          | 0.45             | J,R   | 1.1                             | 34  |                                                             |
| 1,2,3,6,7,8-HxCDF                 |  | 0.1                                                                                                                      | 33.39        | <1.7          | 0.53             | J,R   | 1.7                             | 34  |                                                             |
| 2,3,4,6,7,8-HxCDF                 |  | 0.1                                                                                                                      | 33.81        | 1.87          | 0.46             | M,J   |                                 | 34  |                                                             |
| 1,2,3,7,8,9-HxCDF                 |  | 0.1                                                                                                                      | 34.56        | <0.57         | 0.57             | M,U   | 0.33                            | 34  |                                                             |
| 1,2,3,4,6,7,8-HpCDF               |  | 0.01                                                                                                                     | 35.50        | <1.6          | 0.13             | J,R   | 1.6                             | 34  |                                                             |
| 1,2,3,4,7,8,9-HpCDF               |  | 0.01                                                                                                                     | 37.14        | 0.424         | 0.19             | M,J   |                                 | 34  |                                                             |
| OCDF                              |  | 0.0003                                                                                                                   | 39.81        | 0.744         | 0.40             | M,J   |                                 | 67  |                                                             |
| Extraction Standards              |  | pg                                                                                                                       |              | % Rec         | Limits           |       |                                 |     |                                                             |
| 13C12-2,3,7,8-TCDD                |  | 4000                                                                                                                     | 28.64        | 53            | 25-164           |       |                                 |     |                                                             |
| 13C12-1,2,3,7,8-PeCDD             |  | 4000                                                                                                                     | 31.64        | 56            | 25-181           |       |                                 |     |                                                             |
| 13C12-1,2,3,4,7,8-HxCDD           |  | 4000                                                                                                                     | 33.86        | 59            | 32-141           |       |                                 |     |                                                             |
| 13C12-1,2,3,6,7,8-HxCDD           |  | 4000                                                                                                                     | 33.93        | 60            | 28-130           |       |                                 |     |                                                             |
| 13C12-1,2,3,4,6,7,8-HpCDD         |  | 4000                                                                                                                     | 36.46        | 65            | 23-140           |       |                                 |     |                                                             |
| 13C12-OCDD                        |  | 8000                                                                                                                     | 39.41        | 64            | 17-157           |       |                                 |     |                                                             |
| 13C12-2,3,7,8-TCDF                |  | 4000                                                                                                                     | 28.12        | 51            | 24-169           |       |                                 |     |                                                             |
| 13C12-1,2,3,7,8-PeCDF             |  | 4000                                                                                                                     | 30.91        | 51            | 24-185           |       |                                 |     |                                                             |
| 13C12-2,3,4,7,8-PeCDF             |  | 4000                                                                                                                     | 31.53        | 58            | 21-178           |       |                                 |     |                                                             |
| 13C12-1,2,3,4,7,8-HxCDF           |  | 4000                                                                                                                     | 33.28        | 60            | 26-152           |       |                                 |     |                                                             |
| 13C12-1,2,3,6,7,8-HxCDF           |  | 4000                                                                                                                     | 33.38        | 55            | 26-123           |       |                                 |     |                                                             |
| 13C12-2,3,4,6,7,8-HxCDF           |  | 4000                                                                                                                     | 33.81        | 61            | 28-136           |       |                                 |     |                                                             |
| 13C12-1,2,3,7,8,9-HxCDF           |  | 4000                                                                                                                     | 34.52        | 69            | 29-147           |       |                                 |     |                                                             |
| 13C12-1,2,3,4,6,7,8-HpCDF         |  | 4000                                                                                                                     | 35.50        | 66            | 28-143           |       |                                 |     |                                                             |
| 13C12-1,2,3,4,7,8,9-HpCDF         |  | 4000                                                                                                                     | 37.12        | 68            | 26-138           |       |                                 |     |                                                             |
| Cleanup Standard                  |  | pg                                                                                                                       |              |               |                  |       |                                 |     |                                                             |
| 37Cl4-2,3,7,8-TCDD (Cleanup)      |  | 80                                                                                                                       | 28.66        | 53            | 35-197           |       |                                 |     |                                                             |
| Homologue Group Totals            |  |                                                                                                                          | # peaks      | Conc.<br>pg/g | EDL<br>pg/g      |       |                                 |     |                                                             |
| Total-TCDD                        |  |                                                                                                                          | 0            | <0.26         | 0.26             | U     | 6.7                             |     |                                                             |
| Total-PeCDD                       |  |                                                                                                                          | 0            | <0.23         | 0.23             | U     | 34                              |     |                                                             |
| Total-HxCDD                       |  |                                                                                                                          | 2            | 2.00          | 0.39             |       | 34                              |     |                                                             |
| Total-HpCDD                       |  |                                                                                                                          | 2            | 5.78          | 0.39             |       | 34                              |     |                                                             |
| Total-TCDF                        |  |                                                                                                                          | 6            | 8.84          | 0.61             |       | 6.7                             |     |                                                             |
| Total-PeCDF                       |  |                                                                                                                          | 3            | 13.9          | 0.31             |       | 34                              |     |                                                             |
| Total-HxCDF                       |  |                                                                                                                          | 5            | 6.56          | 0.57             |       | 34                              |     |                                                             |
| Total-HpCDF                       |  |                                                                                                                          | 2            | 1.29          | 0.19             |       | 34                              |     |                                                             |
|                                   |  |                                                                                                                          |              |               |                  |       |                                 |     |                                                             |
| Toxic Equivalency - (WHO 2005)    |  |                                                                                                                          |              | pg/g          |                  |       |                                 |     |                                                             |
| Lower Bound PCDD/F TEQ (WHO 2005) |  |                                                                                                                          |              | 3.26          |                  |       |                                 |     |                                                             |
| Mid Point PCDD/F TEQ (WHO 2005)   |  |                                                                                                                          |              | 5.23          |                  |       |                                 |     |                                                             |
| Upper Bound PCDD/F TEQ (WHO 2005) |  |                                                                                                                          |              | 5.26          |                  |       |                                 |     |                                                             |
|                                   |  |                                                                                                                          |              |               |                  |       |                                 |     |                                                             |
| EDL                               |  | Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.          |              |               |                  |       |                                 |     |                                                             |
| TEF                               |  | Indicates the Toxic Equivalency Factor                                                                                   |              |               |                  | TEQ   | Indicates the Toxic Equivalency |     |                                                             |
| M                                 |  | Indicates that a peak has been manually integrated.                                                                      |              |               |                  |       |                                 |     |                                                             |
| U                                 |  | Indicates that this compound was not detected above the EDL.                                                             |              |               |                  |       |                                 |     |                                                             |
|                                   |  |                                                                                                                          |              |               |                  |       |                                 |     |                                                             |
| J                                 |  | Indicates that a target analyte was detected below the calibrated range.                                                 |              |               |                  |       |                                 |     |                                                             |
| R                                 |  | Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.                          |              |               |                  |       |                                 |     |                                                             |
| B                                 |  | Indicates that this target was detected in the blank at greater than 10% of the sample concentration.                    |              |               |                  |       |                                 |     |                                                             |
| LQL                               |  | Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.       |              |               |                  |       |                                 |     |                                                             |
| EMPC                              |  | Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure |              |               |                  |       |                                 |     |                                                             |

| ALS Life Sciences                 |  |                                                                                                                          |              |               |                  |       |                                 |     |                                                             |
|-----------------------------------|--|--------------------------------------------------------------------------------------------------------------------------|--------------|---------------|------------------|-------|---------------------------------|-----|-------------------------------------------------------------|
| Sample Analysis Report            |  |                                                                                                                          |              |               |                  |       |                                 |     |                                                             |
| Sample Name                       |  | PLOT 117 - 1 JAR                                                                                                         |              |               | Sampling Date    |       | 25-May-24                       |     | Approved:<br>M.Elchawiche<br>--e-signature--<br>26-Jul-2024 |
| ALS Sample ID                     |  | L2756078-8                                                                                                               |              |               | Extraction Date  |       | 6-Jul-24                        |     |                                                             |
| Analysis Method                   |  | EPA 1613B                                                                                                                |              |               | Sample Size      |       | 1.33 g                          |     |                                                             |
| Analysis Type                     |  | Sample                                                                                                                   |              |               | Percent Moisture |       | 70.0%                           |     |                                                             |
| Sample Matrix                     |  | Tissue                                                                                                                   |              |               | Split Ratio      |       | 4                               |     |                                                             |
| Run Information                   |  | Run 1                                                                                                                    |              |               |                  |       |                                 |     |                                                             |
| Filename                          |  | 12-240715A26                                                                                                             |              |               |                  |       |                                 |     |                                                             |
| Run Date                          |  | 16-Jul-24 02:26                                                                                                          |              |               |                  |       |                                 |     |                                                             |
| Final Volume                      |  | 10 uL                                                                                                                    |              |               |                  |       |                                 |     |                                                             |
| Dilution Factor                   |  | 1                                                                                                                        |              |               |                  |       |                                 |     |                                                             |
| Analysis Units                    |  | pg/g                                                                                                                     |              |               |                  |       |                                 |     |                                                             |
| Instrument - Column               |  | HRMS-12 ZB-DX1171742                                                                                                     |              |               |                  |       |                                 |     |                                                             |
|                                   |  |                                                                                                                          |              |               |                  |       |                                 |     |                                                             |
| Target Analytes                   |  | TEF<br>(WHO 2005)                                                                                                        | Ret.<br>Time | Conc.<br>pg/g | EDL<br>pg/g      | Flags | EMPC<br>pg/g                    | LQL |                                                             |
| 2,3,7,8-TCDD                      |  | 1                                                                                                                        | 28.64        | <0.26         | 0.26             | M,U   | 0.16                            | 15  |                                                             |
| 1,2,3,7,8-PeCDD                   |  | 1                                                                                                                        | 31.64        | 1.09          | 0.48             | J     |                                 | 75  |                                                             |
| 1,2,3,4,7,8-HxCDD                 |  | 0.1                                                                                                                      | 33.87        | <0.57         | 0.39             | J,R   | 0.57                            | 75  |                                                             |
| 1,2,3,6,7,8-HxCDD                 |  | 0.1                                                                                                                      | 33.93        | 1.04          | 0.41             | J     |                                 | 75  |                                                             |
| 1,2,3,7,8,9-HxCDD                 |  | 0.1                                                                                                                      | 34.15        | <0.44         | 0.39             | J,R   | 0.44                            | 75  |                                                             |
| 1,2,3,4,6,7,8-HpCDD               |  | 0.01                                                                                                                     | 36.47        | <1.4          | 0.39             | M,J,R | 1.4                             | 75  |                                                             |
| OCDD                              |  | 0.0003                                                                                                                   | 39.41        | <3.1          | 0.68             | M,J,R | 3.1                             | 150 |                                                             |
| 2,3,7,8-TCDF                      |  | 0.1                                                                                                                      | 28.14        | <2.8          | 0.43             | J,R   | 2.8                             | 15  |                                                             |
| 1,2,3,7,8-PeCDF                   |  | 0.03                                                                                                                     | 30.91        | 1.74          | 0.62             | J,B   |                                 | 75  |                                                             |
| 2,3,4,7,8-PeCDF                   |  | 0.3                                                                                                                      | 31.54        | <2.4          | 0.45             | J,R   | 2.4                             | 75  |                                                             |
| 1,2,3,4,7,8-HxCDF                 |  | 0.1                                                                                                                      | 33.29        | 0.825         | 0.36             | J     |                                 | 75  |                                                             |
| 1,2,3,6,7,8-HxCDF                 |  | 0.1                                                                                                                      | 33.38        | <0.56         | 0.42             | J,R   | 0.56                            | 75  |                                                             |
| 2,3,4,6,7,8-HxCDF                 |  | 0.1                                                                                                                      | 33.81        | 1.19          | 0.39             | J     |                                 | 75  |                                                             |
| 1,2,3,7,8,9-HxCDF                 |  | 0.1                                                                                                                      | 34.55        | <0.49         | 0.49             | M,U   | 0.29                            | 75  |                                                             |
| 1,2,3,4,6,7,8-HpCDF               |  | 0.01                                                                                                                     | 35.51        | <0.72         | 0.37             | J,R   | 0.72                            | 75  |                                                             |
| 1,2,3,4,7,8,9-HpCDF               |  | 0.01                                                                                                                     | 37.12        | <0.53         | 0.53             | M,U   | 0.34                            | 75  |                                                             |
| OCDF                              |  | 0.0003                                                                                                                   | 39.77        | <0.59         | 0.58             | M,J,R | 0.59                            | 150 |                                                             |
| Extraction Standards              |  | pg                                                                                                                       |              | % Rec         | Limits           |       |                                 |     |                                                             |
| 13C12-2,3,7,8-TCDD                |  | 4000                                                                                                                     | 28.64        | 72            | 25-164           |       |                                 |     |                                                             |
| 13C12-1,2,3,7,8-PeCDD             |  | 4000                                                                                                                     | 31.64        | 73            | 25-181           |       |                                 |     |                                                             |
| 13C12-1,2,3,4,7,8-HxCDD           |  | 4000                                                                                                                     | 33.86        | 80            | 32-141           |       |                                 |     |                                                             |
| 13C12-1,2,3,6,7,8-HxCDD           |  | 4000                                                                                                                     | 33.93        | 79            | 28-130           |       |                                 |     |                                                             |
| 13C12-1,2,3,4,6,7,8-HpCDD         |  | 4000                                                                                                                     | 36.46        | 84            | 23-140           |       |                                 |     |                                                             |
| 13C12-OCDD                        |  | 8000                                                                                                                     | 39.41        | 78            | 17-157           |       |                                 |     |                                                             |
| 13C12-2,3,7,8-TCDF                |  | 4000                                                                                                                     | 28.12        | 69            | 24-169           |       |                                 |     |                                                             |
| 13C12-1,2,3,7,8-PeCDF             |  | 4000                                                                                                                     | 30.91        | 66            | 24-185           |       |                                 |     |                                                             |
| 13C12-2,3,4,7,8-PeCDF             |  | 4000                                                                                                                     | 31.53        | 77            | 21-178           |       |                                 |     |                                                             |
| 13C12-1,2,3,4,7,8-HxCDF           |  | 4000                                                                                                                     | 33.28        | 79            | 26-152           |       |                                 |     |                                                             |
| 13C12-1,2,3,6,7,8-HxCDF           |  | 4000                                                                                                                     | 33.38        | 74            | 26-123           |       |                                 |     |                                                             |
| 13C12-2,3,4,6,7,8-HxCDF           |  | 4000                                                                                                                     | 33.81        | 79            | 28-136           |       |                                 |     |                                                             |
| 13C12-1,2,3,7,8,9-HxCDF           |  | 4000                                                                                                                     | 34.52        | 84            | 29-147           |       |                                 |     |                                                             |
| 13C12-1,2,3,4,6,7,8-HpCDF         |  | 4000                                                                                                                     | 35.50        | 86            | 28-143           |       |                                 |     |                                                             |
| 13C12-1,2,3,4,7,8,9-HpCDF         |  | 4000                                                                                                                     | 37.12        | 87            | 26-138           |       |                                 |     |                                                             |
| Cleanup Standard                  |  | pg                                                                                                                       |              |               |                  |       |                                 |     |                                                             |
| 37Cl4-2,3,7,8-TCDD (Cleanup)      |  | 80                                                                                                                       | 28.66        | 64            | 35-197           |       |                                 |     |                                                             |
| Homologue Group Totals            |  |                                                                                                                          | # peaks      | Conc.<br>pg/g | EDL<br>pg/g      |       |                                 |     |                                                             |
| Total-TCDD                        |  |                                                                                                                          | 0            | <0.26         | 0.26             | U     | 15                              |     |                                                             |
| Total-PeCDD                       |  |                                                                                                                          | 1            | 1.09          | 0.48             |       | 75                              |     |                                                             |
| Total-HxCDD                       |  |                                                                                                                          | 1            | 1.04          | 0.41             |       | 75                              |     |                                                             |
| Total-HpCDD                       |  |                                                                                                                          | 0            | <0.39         | 0.39             | U     | 75                              |     |                                                             |
| Total-TCDF                        |  |                                                                                                                          | 0            | <0.43         | 0.43             | U     | 15                              |     |                                                             |
| Total-PeCDF                       |  |                                                                                                                          | 4            | 3.94          | 0.62             |       | 75                              |     |                                                             |
| Total-HxCDF                       |  |                                                                                                                          | 2            | 2.02          | 0.49             |       | 75                              |     |                                                             |
| Total-HpCDF                       |  |                                                                                                                          | 0            | <0.53         | 0.53             | U     | 75                              |     |                                                             |
|                                   |  |                                                                                                                          |              |               |                  |       |                                 |     |                                                             |
| Toxic Equivalency - (WHO 2005)    |  |                                                                                                                          |              | pg/g          |                  |       |                                 |     |                                                             |
| Lower Bound PCDD/F TEQ (WHO 2005) |  |                                                                                                                          |              | 1.45          |                  |       |                                 |     |                                                             |
| Mid Point PCDD/F TEQ (WHO 2005)   |  |                                                                                                                          |              | 2.78          |                  |       |                                 |     |                                                             |
| Upper Bound PCDD/F TEQ (WHO 2005) |  |                                                                                                                          |              | 2.94          |                  |       |                                 |     |                                                             |
|                                   |  |                                                                                                                          |              |               |                  |       |                                 |     |                                                             |
| EDL                               |  | Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.          |              |               |                  |       |                                 |     |                                                             |
| TEF                               |  | Indicates the Toxic Equivalency Factor                                                                                   |              |               |                  | TEQ   | Indicates the Toxic Equivalency |     |                                                             |
| M                                 |  | Indicates that a peak has been manually integrated.                                                                      |              |               |                  |       |                                 |     |                                                             |
| U                                 |  | Indicates that this compound was not detected above the EDL.                                                             |              |               |                  |       |                                 |     |                                                             |
|                                   |  |                                                                                                                          |              |               |                  |       |                                 |     |                                                             |
| J                                 |  | Indicates that a target analyte was detected below the calibrated range.                                                 |              |               |                  |       |                                 |     |                                                             |
| R                                 |  | Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.                          |              |               |                  |       |                                 |     |                                                             |
| B                                 |  | Indicates that this target was detected in the blank at greater than 10% of the sample concentration.                    |              |               |                  |       |                                 |     |                                                             |
| LQL                               |  | Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.       |              |               |                  |       |                                 |     |                                                             |
| EMPC                              |  | Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure |              |               |                  |       |                                 |     |                                                             |

| ALS Life Sciences                 |  |                                                                                                                          |              |               |                  |       |              |                                 |                                                             |
|-----------------------------------|--|--------------------------------------------------------------------------------------------------------------------------|--------------|---------------|------------------|-------|--------------|---------------------------------|-------------------------------------------------------------|
| Sample Analysis Report            |  |                                                                                                                          |              |               |                  |       |              |                                 |                                                             |
| Sample Name                       |  | PLOT 123 - 3 JARS                                                                                                        |              |               | Sampling Date    |       | 25-May-24    |                                 | Approved:<br>M.Elchawiche<br>--e-signature--<br>26-Jul-2024 |
| ALS Sample ID                     |  | L2756078-9                                                                                                               |              |               | Extraction Date  |       | 6-Jul-24     |                                 |                                                             |
| Analysis Method                   |  | EPA 1613B                                                                                                                |              |               | Sample Size      |       | 2.82 g       |                                 |                                                             |
| Analysis Type                     |  | Sample                                                                                                                   |              |               | Percent Moisture |       | 72.1%        |                                 |                                                             |
| Sample Matrix                     |  | Tissue                                                                                                                   |              |               | Split Ratio      |       | 4            |                                 |                                                             |
| Run Information                   |  |                                                                                                                          |              | Run 1         |                  |       |              |                                 |                                                             |
| Filename                          |  | 12-240715A27                                                                                                             |              |               |                  |       |              |                                 |                                                             |
| Run Date                          |  | 16-Jul-24 03:12                                                                                                          |              |               |                  |       |              |                                 |                                                             |
| Final Volume                      |  | 10 uL                                                                                                                    |              |               |                  |       |              |                                 |                                                             |
| Dilution Factor                   |  | 1                                                                                                                        |              |               |                  |       |              |                                 |                                                             |
| Analysis Units                    |  | pg/g                                                                                                                     |              |               |                  |       |              |                                 |                                                             |
| Instrument - Column               |  | HRMS-12 ZB-DX1171742                                                                                                     |              |               |                  |       |              |                                 |                                                             |
|                                   |  |                                                                                                                          |              |               |                  |       |              |                                 |                                                             |
| Target Analytes                   |  | TEF<br>(WHO 2005)                                                                                                        | Ret.<br>Time | Conc.<br>pg/g | EDL<br>pg/g      | Flags | EMPC<br>pg/g | LQL                             |                                                             |
| 2,3,7,8-TCDD                      |  | 1                                                                                                                        | 28.67        | <0.27         | 0.15             | J,R   | 0.27         | 7.1                             |                                                             |
| 1,2,3,7,8-PeCDD                   |  | 1                                                                                                                        | 31.65        | <2.2          | 0.21             | J,R   | 2.2          | 35                              |                                                             |
| 1,2,3,4,7,8-HxCDD                 |  | 0.1                                                                                                                      | 33.87        | <1.3          | 0.24             | J,R   | 1.3          | 35                              |                                                             |
| 1,2,3,6,7,8-HxCDD                 |  | 0.1                                                                                                                      | 33.95        | 2.05          | 0.24             | M,J   |              | 35                              |                                                             |
| 1,2,3,7,8,9-HxCDD                 |  | 0.1                                                                                                                      | 34.14        | 0.691         | 0.24             | M,J   |              | 35                              |                                                             |
| 1,2,3,4,6,7,8-HpCDD               |  | 0.01                                                                                                                     | 36.47        | <4.0          | 0.17             | J,R   | 4.0          | 35                              |                                                             |
| OCDD                              |  | 0.0003                                                                                                                   | 39.43        | 4.01          | 0.34             | J     |              | 71                              |                                                             |
| 2,3,7,8-TCDF                      |  | 0.1                                                                                                                      | 28.14        | 6.94          | 0.38             | M,J   |              | 7.1                             |                                                             |
| 1,2,3,7,8-PeCDF                   |  | 0.03                                                                                                                     | 30.93        | <3.1          | 0.34             | J,R   | 3.1          | 35                              |                                                             |
| 2,3,4,7,8-PeCDF                   |  | 0.3                                                                                                                      | 31.54        | 9.63          | 0.29             | J     |              | 35                              |                                                             |
| 1,2,3,4,7,8-HxCDF                 |  | 0.1                                                                                                                      | 33.29        | 1.52          | 0.12             | J     |              | 35                              |                                                             |
| 1,2,3,6,7,8-HxCDF                 |  | 0.1                                                                                                                      | 33.39        | <1.5          | 0.14             | J,R   | 1.5          | 35                              |                                                             |
| 2,3,4,6,7,8-HxCDF                 |  | 0.1                                                                                                                      | 33.82        | 2.12          | 0.12             | M,J   |              | 35                              |                                                             |
| 1,2,3,7,8,9-HxCDF                 |  | 0.1                                                                                                                      | 34.51        | <0.15         | 0.15             | M,U   |              | 35                              |                                                             |
| 1,2,3,4,6,7,8-HpCDF               |  | 0.01                                                                                                                     | 35.51        | <1.3          | 0.16             | J,R   | 1.3          | 35                              |                                                             |
| 1,2,3,4,7,8,9-HpCDF               |  | 0.01                                                                                                                     | 37.14        | <0.24         | 0.24             | M,U   | 0.20         | 35                              |                                                             |
| OCDF                              |  | 0.0003                                                                                                                   | 39.83        | <0.50         | 0.50             | M,U   | 0.22         | 71                              |                                                             |
| Extraction Standards              |  | pg                                                                                                                       |              | % Rec         | Limits           |       |              |                                 |                                                             |
| 13C12-2,3,7,8-TCDD                |  | 4000                                                                                                                     | 28.64        | 65            | 25-164           |       |              |                                 |                                                             |
| 13C12-1,2,3,7,8-PeCDD             |  | 4000                                                                                                                     | 31.64        | 67            | 25-181           |       |              |                                 |                                                             |
| 13C12-1,2,3,4,7,8-HxCDD           |  | 4000                                                                                                                     | 33.86        | 70            | 32-141           |       |              |                                 |                                                             |
| 13C12-1,2,3,6,7,8-HxCDD           |  | 4000                                                                                                                     | 33.95        | 73            | 28-130           |       |              |                                 |                                                             |
| 13C12-1,2,3,4,6,7,8-HpCDD         |  | 4000                                                                                                                     | 36.46        | 77            | 23-140           |       |              |                                 |                                                             |
| 13C12-OCDD                        |  | 8000                                                                                                                     | 39.41        | 74            | 17-157           |       |              |                                 |                                                             |
| 13C12-2,3,7,8-TCDF                |  | 4000                                                                                                                     | 28.13        | 62            | 24-169           |       |              |                                 |                                                             |
| 13C12-1,2,3,7,8-PeCDF             |  | 4000                                                                                                                     | 30.91        | 62            | 24-185           |       |              |                                 |                                                             |
| 13C12-2,3,4,7,8-PeCDF             |  | 4000                                                                                                                     | 31.53        | 69            | 21-178           |       |              |                                 |                                                             |
| 13C12-1,2,3,4,7,8-HxCDF           |  | 4000                                                                                                                     | 33.28        | 74            | 26-152           |       |              |                                 |                                                             |
| 13C12-1,2,3,6,7,8-HxCDF           |  | 4000                                                                                                                     | 33.38        | 63            | 26-123           |       |              |                                 |                                                             |
| 13C12-2,3,4,6,7,8-HxCDF           |  | 4000                                                                                                                     | 33.81        | 72            | 28-136           |       |              |                                 |                                                             |
| 13C12-1,2,3,7,8,9-HxCDF           |  | 4000                                                                                                                     | 34.52        | 79            | 29-147           |       |              |                                 |                                                             |
| 13C12-1,2,3,4,6,7,8-HpCDF         |  | 4000                                                                                                                     | 35.50        | 78            | 28-143           |       |              |                                 |                                                             |
| 13C12-1,2,3,4,7,8,9-HpCDF         |  | 4000                                                                                                                     | 37.12        | 77            | 26-138           |       |              |                                 |                                                             |
| Cleanup Standard                  |  | pg                                                                                                                       |              |               |                  |       |              |                                 |                                                             |
| 37Cl4-2,3,7,8-TCDD (Cleanup)      |  | 80                                                                                                                       | 28.66        | 69            | 35-197           |       |              |                                 |                                                             |
| Homologue Group Totals            |  |                                                                                                                          | # peaks      | Conc.<br>pg/g | EDL<br>pg/g      |       |              |                                 |                                                             |
| Total-TCDD                        |  |                                                                                                                          | 1            | 0.274         | 0.15             | 7.1   |              |                                 |                                                             |
| Total-PeCDD                       |  |                                                                                                                          | 2            | 1.27          | 0.21             | 35    |              |                                 |                                                             |
| Total-HxCDD                       |  |                                                                                                                          | 2            | 2.74          | 0.24             | 35    |              |                                 |                                                             |
| Total-HpCDD                       |  |                                                                                                                          | 1            | 2.42          | 0.17             | 35    |              |                                 |                                                             |
| Total-TCDF                        |  |                                                                                                                          | 4            | 7.87          | 0.38             | 7.1   |              |                                 |                                                             |
| Total-PeCDF                       |  |                                                                                                                          | 3            | 14.0          | 0.34             | 35    |              |                                 |                                                             |
| Total-HxCDF                       |  |                                                                                                                          | 5            | 7.01          | 0.15             | 35    |              |                                 |                                                             |
| Total-HpCDF                       |  |                                                                                                                          | 2            | 1.22          | 0.24             | 35    |              |                                 |                                                             |
|                                   |  |                                                                                                                          |              |               |                  |       |              |                                 |                                                             |
| Toxic Equivalency - (WHO 2005)    |  |                                                                                                                          |              | pg/g          |                  |       |              |                                 |                                                             |
| Lower Bound PCDD/F TEQ (WHO 2005) |  |                                                                                                                          |              | 4.22          |                  |       |              |                                 |                                                             |
| Mid Point PCDD/F TEQ (WHO 2005)   |  |                                                                                                                          |              | 7.13          |                  |       |              |                                 |                                                             |
| Upper Bound PCDD/F TEQ (WHO 2005) |  |                                                                                                                          |              | 7.14          |                  |       |              |                                 |                                                             |
|                                   |  |                                                                                                                          |              |               |                  |       |              |                                 |                                                             |
| EDL                               |  | Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.          |              |               |                  |       |              |                                 |                                                             |
| TEF                               |  | Indicates the Toxic Equivalency Factor                                                                                   |              |               |                  | TEQ   |              | Indicates the Toxic Equivalency |                                                             |
| M                                 |  | Indicates that a peak has been manually integrated.                                                                      |              |               |                  |       |              |                                 |                                                             |
| U                                 |  | Indicates that this compound was not detected above the EDL.                                                             |              |               |                  |       |              |                                 |                                                             |
|                                   |  |                                                                                                                          |              |               |                  |       |              |                                 |                                                             |
| J                                 |  | Indicates that a target analyte was detected below the calibrated range.                                                 |              |               |                  |       |              |                                 |                                                             |
| R                                 |  | Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.                          |              |               |                  |       |              |                                 |                                                             |
|                                   |  |                                                                                                                          |              |               |                  |       |              |                                 |                                                             |
| LQL                               |  | Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.       |              |               |                  |       |              |                                 |                                                             |
| EMPC                              |  | Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure |              |               |                  |       |              |                                 |                                                             |



| ALS Life Sciences                 |  |                                                                                                                          |              |               |                  |       |              |                                 |                                                             |
|-----------------------------------|--|--------------------------------------------------------------------------------------------------------------------------|--------------|---------------|------------------|-------|--------------|---------------------------------|-------------------------------------------------------------|
| Sample Analysis Report            |  |                                                                                                                          |              |               |                  |       |              |                                 |                                                             |
| Sample Name                       |  | PLOT 402 - 6 JARS                                                                                                        |              |               | Sampling Date    |       | 25-May-24    |                                 | Approved:<br>M.Elchawiche<br>--e-signature--<br>26-Jul-2024 |
| ALS Sample ID                     |  | L2756078-10                                                                                                              |              |               | Extraction Date  |       | 6-Jul-24     |                                 |                                                             |
| Analysis Method                   |  | EPA 1613B                                                                                                                |              |               | Sample Size      |       | 2.86 g       |                                 |                                                             |
| Analysis Type                     |  | Sample                                                                                                                   |              |               | Percent Moisture |       | 72.7%        |                                 |                                                             |
| Sample Matrix                     |  | Tissue                                                                                                                   |              |               | Split Ratio      |       | 4            |                                 |                                                             |
| Run Information                   |  | Run 1                                                                                                                    |              |               |                  |       |              |                                 |                                                             |
| Filename                          |  | 12-240715A28                                                                                                             |              |               |                  |       |              |                                 |                                                             |
| Run Date                          |  | 16-Jul-24 03:57                                                                                                          |              |               |                  |       |              |                                 |                                                             |
| Final Volume                      |  | 10 uL                                                                                                                    |              |               |                  |       |              |                                 |                                                             |
| Dilution Factor                   |  | 1                                                                                                                        |              |               |                  |       |              |                                 |                                                             |
| Analysis Units                    |  | pg/g                                                                                                                     |              |               |                  |       |              |                                 |                                                             |
| Instrument - Column               |  | HRMS-12 ZB-DX1171742                                                                                                     |              |               |                  |       |              |                                 |                                                             |
|                                   |  |                                                                                                                          |              |               |                  |       |              |                                 |                                                             |
| Target Analytes                   |  | TEF<br>(WHO 2005)                                                                                                        | Ret.<br>Time | Conc.<br>pg/g | EDL<br>pg/g      | Flags | EMPC<br>pg/g | LQL                             |                                                             |
| 2,3,7,8-TCDD                      |  | 1                                                                                                                        | 28.69        | 0.206         | 0.17             | M,J   |              | 7.0                             |                                                             |
| 1,2,3,7,8-PeCDD                   |  | 1                                                                                                                        | 31.64        | <0.42         | 0.19             | M,J,R | 0.42         | 35                              |                                                             |
| 1,2,3,4,7,8-HxCDD                 |  | 0.1                                                                                                                      | 33.86        | <0.23         | 0.20             | M,J,R | 0.23         | 35                              |                                                             |
| 1,2,3,6,7,8-HxCDD                 |  | 0.1                                                                                                                      | 33.93        | 0.564         | 0.20             | J     |              | 35                              |                                                             |
| 1,2,3,7,8,9-HxCDD                 |  | 0.1                                                                                                                      | 34.14        | <0.25         | 0.20             | M,J,R | 0.25         | 35                              |                                                             |
| 1,2,3,4,6,7,8-HpCDD               |  | 0.01                                                                                                                     | 36.46        | 1.20          | 0.41             | J     |              | 35                              |                                                             |
| OCDD                              |  | 0.0003                                                                                                                   | 39.43        | 1.74          | 0.37             | J     |              | 70                              |                                                             |
| 2,3,7,8-TCDF                      |  | 0.1                                                                                                                      | 28.14        | 0.803         | 0.20             | J     |              | 7.0                             |                                                             |
| 1,2,3,7,8-PeCDF                   |  | 0.03                                                                                                                     | 30.91        | <0.50         | 0.17             | M,J,R | 0.50         | 35                              |                                                             |
| 2,3,4,7,8-PeCDF                   |  | 0.3                                                                                                                      | 31.54        | <0.35         | 0.13             | M,J,R | 0.35         | 35                              |                                                             |
| 1,2,3,4,7,8-HxCDF                 |  | 0.1                                                                                                                      | 33.29        | <0.19         | 0.18             | J,R   | 0.19         | 35                              |                                                             |
| 1,2,3,6,7,8-HxCDF                 |  | 0.1                                                                                                                      | 33.38        | 0.329         | 0.24             | J     |              | 35                              |                                                             |
| 2,3,4,6,7,8-HxCDF                 |  | 0.1                                                                                                                      | 33.82        | <0.19         | 0.19             | M,U   | 0.14         | 35                              |                                                             |
| 1,2,3,7,8,9-HxCDF                 |  | 0.1                                                                                                                      | 34.54        | <0.23         | 0.23             | M,U   |              | 35                              |                                                             |
| 1,2,3,4,6,7,8-HpCDF               |  | 0.01                                                                                                                     | 35.48        | <0.38         | 0.10             | M,J,R | 0.38         | 35                              |                                                             |
| 1,2,3,4,7,8,9-HpCDF               |  | 0.01                                                                                                                     | 37.14        | <0.15         | 0.15             | M,U   | 0.084        | 35                              |                                                             |
| OCDF                              |  | 0.0003                                                                                                                   | 39.80        | 0.298         | 0.27             | M,J   |              | 70                              |                                                             |
| Extraction Standards              |  | pg                                                                                                                       |              | % Rec         | Limits           |       |              |                                 |                                                             |
| 13C12-2,3,7,8-TCDD                |  | 4000                                                                                                                     | 28.64        | 81            | 25-164           |       |              |                                 |                                                             |
| 13C12-1,2,3,7,8-PeCDD             |  | 4000                                                                                                                     | 31.63        | 83            | 25-181           |       |              |                                 |                                                             |
| 13C12-1,2,3,4,7,8-HxCDD           |  | 4000                                                                                                                     | 33.86        | 90            | 32-141           |       |              |                                 |                                                             |
| 13C12-1,2,3,6,7,8-HxCDD           |  | 4000                                                                                                                     | 33.93        | 89            | 28-130           |       |              |                                 |                                                             |
| 13C12-1,2,3,4,6,7,8-HpCDD         |  | 4000                                                                                                                     | 36.45        | 97            | 23-140           |       |              |                                 |                                                             |
| 13C12-OCDD                        |  | 8000                                                                                                                     | 39.41        | 95            | 17-157           |       |              |                                 |                                                             |
| 13C12-2,3,7,8-TCDF                |  | 4000                                                                                                                     | 28.12        | 77            | 24-169           |       |              |                                 |                                                             |
| 13C12-1,2,3,7,8-PeCDF             |  | 4000                                                                                                                     | 30.90        | 77            | 24-185           |       |              |                                 |                                                             |
| 13C12-2,3,4,7,8-PeCDF             |  | 4000                                                                                                                     | 31.53        | 87            | 21-178           |       |              |                                 |                                                             |
| 13C12-1,2,3,4,7,8-HxCDF           |  | 4000                                                                                                                     | 33.28        | 92            | 26-152           |       |              |                                 |                                                             |
| 13C12-1,2,3,6,7,8-HxCDF           |  | 4000                                                                                                                     | 33.37        | 74            | 26-123           |       |              |                                 |                                                             |
| 13C12-2,3,4,6,7,8-HxCDF           |  | 4000                                                                                                                     | 33.80        | 92            | 28-136           |       |              |                                 |                                                             |
| 13C12-1,2,3,7,8,9-HxCDF           |  | 4000                                                                                                                     | 34.51        | 103           | 29-147           |       |              |                                 |                                                             |
| 13C12-1,2,3,4,6,7,8-HpCDF         |  | 4000                                                                                                                     | 35.49        | 100           | 28-143           |       |              |                                 |                                                             |
| 13C12-1,2,3,4,7,8,9-HpCDF         |  | 4000                                                                                                                     | 37.11        | 99            | 26-138           |       |              |                                 |                                                             |
| Cleanup Standard                  |  | pg                                                                                                                       |              |               |                  |       |              |                                 |                                                             |
| 37Cl4-2,3,7,8-TCDD (Cleanup)      |  | 80                                                                                                                       | 28.66        | 65            | 35-197           |       |              |                                 |                                                             |
| Homologue Group Totals            |  |                                                                                                                          | # peaks      | Conc.<br>pg/g | EDL<br>pg/g      |       |              |                                 |                                                             |
| Total-TCDD                        |  |                                                                                                                          | 1            | 0.206         | 0.17             | 7.0   |              |                                 |                                                             |
| Total-PeCDD                       |  |                                                                                                                          | 0            | <0.19         | 0.19             | U     | 35           |                                 |                                                             |
| Total-HxCDD                       |  |                                                                                                                          | 1            | 0.564         | 0.20             | 35    |              |                                 |                                                             |
| Total-HpCDD                       |  |                                                                                                                          | 1            | 1.20          | 0.41             | 35    |              |                                 |                                                             |
| Total-TCDF                        |  |                                                                                                                          | 2            | 1.40          | 0.20             | 7.0   |              |                                 |                                                             |
| Total-PeCDF                       |  |                                                                                                                          | 0            | <0.17         | 0.17             | U     | 35           |                                 |                                                             |
| Total-HxCDF                       |  |                                                                                                                          | 3            | 0.901         | 0.24             | 35    |              |                                 |                                                             |
| Total-HpCDF                       |  |                                                                                                                          | 0            | <0.15         | 0.15             | U     | 35           |                                 |                                                             |
|                                   |  |                                                                                                                          |              |               |                  |       |              |                                 |                                                             |
| Toxic Equivalency - (WHO 2005)    |  |                                                                                                                          |              | pg/g          |                  |       |              |                                 |                                                             |
| Lower Bound PCDD/F TEQ (WHO 2005) |  |                                                                                                                          |              | 0.388         |                  |       |              |                                 |                                                             |
| Mid Point PCDD/F TEQ (WHO 2005)   |  |                                                                                                                          |              | 1.02          |                  |       |              |                                 |                                                             |
| Upper Bound PCDD/F TEQ (WHO 2005) |  |                                                                                                                          |              | 1.04          |                  |       |              |                                 |                                                             |
|                                   |  |                                                                                                                          |              |               |                  |       |              |                                 |                                                             |
| EDL                               |  | Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.          |              |               |                  |       |              |                                 |                                                             |
| TEF                               |  | Indicates the Toxic Equivalency Factor                                                                                   |              |               |                  | TEQ   |              | Indicates the Toxic Equivalency |                                                             |
| M                                 |  | Indicates that a peak has been manually integrated.                                                                      |              |               |                  |       |              |                                 |                                                             |
| U                                 |  | Indicates that this compound was not detected above the EDL.                                                             |              |               |                  |       |              |                                 |                                                             |
| J                                 |  | Indicates that a target analyte was detected below the calibrated range.                                                 |              |               |                  |       |              |                                 |                                                             |
| R                                 |  | Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.                          |              |               |                  |       |              |                                 |                                                             |
| LQL                               |  | Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.       |              |               |                  |       |              |                                 |                                                             |
| EMPC                              |  | Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure |              |               |                  |       |              |                                 |                                                             |

| ALS Life Sciences                       |  |                                                                                                                          |              |                      |             |          |              |                                                                           |  |
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| Laboratory Method Blank Analysis Report |  |                                                                                                                          |              |                      |             |          |              |                                                                           |  |
| Sample Name                             |  | Method Blank                                                                                                             |              | Sampling Date        |             | n/a      |              | <div>Approved:<br/>M.Elchawiche<br/>--e-signature--<br/>26-Jul-2024</div> |  |
| ALS Sample ID                           |  | WG3789754-1                                                                                                              |              | Extraction Date      |             | 6-Jul-24 |              |                                                                           |  |
| Analysis Method                         |  | EPA 1613B                                                                                                                |              | Sample Size          |             | 3.00 g   |              |                                                                           |  |
| Analysis Type                           |  | Blank                                                                                                                    |              | Percent Moisture     |             | n/a      |              |                                                                           |  |
| Sample Matrix                           |  | 1g Corn oil                                                                                                              |              | Split Ratio          |             | 4        |              |                                                                           |  |
| Run Information                         |  |                                                                                                                          |              | Run 1                |             |          |              |                                                                           |  |
| Filename                                |  |                                                                                                                          |              | 12-240715A10         |             |          |              |                                                                           |  |
| Run Date                                |  |                                                                                                                          |              | 15-Jul-24 16:10      |             |          |              |                                                                           |  |
| Final Volume                            |  |                                                                                                                          |              | 10 uL                |             |          |              |                                                                           |  |
| Dilution Factor                         |  |                                                                                                                          |              | 1                    |             |          |              |                                                                           |  |
| Analysis Units                          |  |                                                                                                                          |              | pg/g                 |             |          |              |                                                                           |  |
| Instrument - Column                     |  |                                                                                                                          |              | HRMS-12 ZB-DX1171742 |             |          |              |                                                                           |  |
|                                         |  |                                                                                                                          |              |                      |             |          |              |                                                                           |  |
| Target Analytes                         |  | TEF<br>(WHO 2005)                                                                                                        | Ret.<br>Time | Conc.<br>pg/g        | EDL<br>pg/g | Flags    | EMPC<br>pg/g | LQL                                                                       |  |
| 2,3,7,8-TCDD                            |  | 1                                                                                                                        | 28.69        | <0.36                | 0.36        | M,U      | 0.13         | 6.7                                                                       |  |
| 1,2,3,7,8-PeCDD                         |  | 1                                                                                                                        | 31.65        | <0.32                | 0.30        | M,J,R    | 0.32         | 33                                                                        |  |
| 1,2,3,4,7,8-HxCDD                       |  | 0.1                                                                                                                      | NotFnd       | <0.16                | 0.16        | U        |              | 33                                                                        |  |
| 1,2,3,6,7,8-HxCDD                       |  | 0.1                                                                                                                      | NotFnd       | <0.15                | 0.15        | U        |              | 33                                                                        |  |
| 1,2,3,7,8,9-HxCDD                       |  | 0.1                                                                                                                      | NotFnd       | <0.15                | 0.15        | U        |              | 33                                                                        |  |
| 1,2,3,4,6,7,8-HpCDD                     |  | 0.01                                                                                                                     | 36.48        | <0.27                | 0.14        | M,J,R    | 0.27         | 33                                                                        |  |
| OCDD                                    |  | 0.0003                                                                                                                   | 39.41        | <0.66                | 0.45        | M,J,R    | 0.66         | 67                                                                        |  |
| 2,3,7,8-TCDF                            |  | 0.1                                                                                                                      | 28.14        | <0.29                | 0.20        | J,R      | 0.29         | 6.7                                                                       |  |
| 1,2,3,7,8-PeCDF                         |  | 0.03                                                                                                                     | 30.91        | 0.394                | 0.25        | M,J      |              | 33                                                                        |  |
| 2,3,4,7,8-PeCDF                         |  | 0.3                                                                                                                      | 31.56        | <0.21                | 0.21        | M,U      | 0.087        | 33                                                                        |  |
| 1,2,3,4,7,8-HxCDF                       |  | 0.1                                                                                                                      | NotFnd       | <0.28                | 0.28        | U        |              | 33                                                                        |  |
| 1,2,3,6,7,8-HxCDF                       |  | 0.1                                                                                                                      | NotFnd       | <0.29                | 0.29        | U        |              | 33                                                                        |  |
| 2,3,4,6,7,8-HxCDF                       |  | 0.1                                                                                                                      | NotFnd       | <0.27                | 0.27        | U        |              | 33                                                                        |  |
| 1,2,3,7,8,9-HxCDF                       |  | 0.1                                                                                                                      | 34.54        | <0.32                | 0.32        | M,U      | 0.11         | 33                                                                        |  |
| 1,2,3,4,6,7,8-HpCDF                     |  | 0.01                                                                                                                     | 35.52        | <0.16                | 0.14        | M,J,R    | 0.16         | 33                                                                        |  |
| 1,2,3,4,7,8,9-HpCDF                     |  | 0.01                                                                                                                     | 37.12        | <0.21                | 0.21        | M,U      | 0.13         | 33                                                                        |  |
| OCDF                                    |  | 0.0003                                                                                                                   | 39.79        | <0.30                | 0.30        | M,U      | 0.19         | 67                                                                        |  |
| Extraction Standards                    |  | pg                                                                                                                       |              | % Rec                | Limits      |          |              |                                                                           |  |
| 13C12-2,3,7,8-TCDD                      |  | 4000                                                                                                                     | 28.64        | 57                   | 25-164      |          |              |                                                                           |  |
| 13C12-1,2,3,7,8-PeCDD                   |  | 4000                                                                                                                     | 31.64        | 56                   | 25-181      |          |              |                                                                           |  |
| 13C12-1,2,3,4,7,8-HxCDD                 |  | 4000                                                                                                                     | 33.86        | 66                   | 32-141      |          |              |                                                                           |  |
| 13C12-1,2,3,6,7,8-HxCDD                 |  | 4000                                                                                                                     | 33.95        | 66                   | 28-130      |          |              |                                                                           |  |
| 13C12-1,2,3,4,6,7,8-HpCDD               |  | 4000                                                                                                                     | 36.46        | 75                   | 23-140      |          |              |                                                                           |  |
| 13C12-OCDD                              |  | 8000                                                                                                                     | 39.41        | 73                   | 17-157      |          |              |                                                                           |  |
| 13C12-2,3,7,8-TCDF                      |  | 4000                                                                                                                     | 28.13        | 53                   | 24-169      |          |              |                                                                           |  |
| 13C12-1,2,3,7,8-PeCDF                   |  | 4000                                                                                                                     | 30.91        | 53                   | 24-185      |          |              |                                                                           |  |
| 13C12-2,3,4,7,8-PeCDF                   |  | 4000                                                                                                                     | 31.54        | 58                   | 21-178      |          |              |                                                                           |  |
| 13C12-1,2,3,4,7,8-HxCDF                 |  | 4000                                                                                                                     | 33.29        | 67                   | 26-152      |          |              |                                                                           |  |
| 13C12-1,2,3,6,7,8-HxCDF                 |  | 4000                                                                                                                     | 33.38        | 63                   | 26-123      |          |              |                                                                           |  |
| 13C12-2,3,4,6,7,8-HxCDF                 |  | 4000                                                                                                                     | 33.81        | 67                   | 28-136      |          |              |                                                                           |  |
| 13C12-1,2,3,7,8,9-HxCDF                 |  | 4000                                                                                                                     | 34.52        | 73                   | 29-147      |          |              |                                                                           |  |
| 13C12-1,2,3,4,6,7,8-HpCDF               |  | 4000                                                                                                                     | 35.50        | 76                   | 28-143      |          |              |                                                                           |  |
| 13C12-1,2,3,4,7,8,9-HpCDF               |  | 4000                                                                                                                     | 37.12        | 73                   | 26-138      |          |              |                                                                           |  |
| Cleanup Standard                        |  | pg                                                                                                                       |              |                      |             |          |              |                                                                           |  |
| 37Cl4-2,3,7,8-TCDD (Cleanup)            |  | 80                                                                                                                       | 28.67        | 67                   | 35-197      |          |              |                                                                           |  |
| Homologue Group Totals                  |  |                                                                                                                          | # peaks      | Conc.<br>pg/g        | EDL<br>pg/g |          |              |                                                                           |  |
| Total-TCDD                              |  |                                                                                                                          | 0            | <0.36                | 0.36        | U        | 6.7          |                                                                           |  |
| Total-PeCDD                             |  |                                                                                                                          | 0            | <0.30                | 0.30        | U        | 33           |                                                                           |  |
| Total-HxCDD                             |  |                                                                                                                          | 0            | <0.16                | 0.16        | U        | 33           |                                                                           |  |
| Total-HpCDD                             |  |                                                                                                                          | 0            | <0.14                | 0.14        | U        | 33           |                                                                           |  |
| Total-TCDF                              |  |                                                                                                                          | 1            | 0.352                | 0.20        |          | 6.7          |                                                                           |  |
| Total-PeCDF                             |  |                                                                                                                          | 1            | 0.394                | 0.25        |          | 33           |                                                                           |  |
| Total-HxCDF                             |  |                                                                                                                          | 0            | <0.32                | 0.32        | U        | 33           |                                                                           |  |
| Total-HpCDF                             |  |                                                                                                                          | 0            | <0.21                | 0.21        | U        | 33           |                                                                           |  |
|                                         |  |                                                                                                                          |              |                      |             |          |              |                                                                           |  |
| Toxic Equivalency - (WHO 2005)          |  |                                                                                                                          |              | pg/g                 |             |          |              |                                                                           |  |
| Lower Bound PCDD/F TEQ (WHO 2005)       |  |                                                                                                                          |              | 0.0118               |             |          |              |                                                                           |  |
| Mid Point PCDD/F TEQ (WHO 2005)         |  |                                                                                                                          |              | 0.659                |             |          |              |                                                                           |  |
| Upper Bound PCDD/F TEQ (WHO 2005)       |  |                                                                                                                          |              | 0.953                |             |          |              |                                                                           |  |
|                                         |  |                                                                                                                          |              |                      |             |          |              |                                                                           |  |
| EDL                                     |  | Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.          |              |                      |             |          |              |                                                                           |  |
| TEF                                     |  | Indicates the Toxic Equivalency Factor                                                                                   |              |                      |             | TEQ      |              | Indicates the Toxic Equivalency                                           |  |
| M                                       |  | Indicates that a peak has been manually integrated.                                                                      |              |                      |             |          |              |                                                                           |  |
| U                                       |  | Indicates that this compound was not detected above the EDL.                                                             |              |                      |             |          |              |                                                                           |  |
|                                         |  |                                                                                                                          |              |                      |             |          |              |                                                                           |  |
| J                                       |  | Indicates that a target analyte was detected below the calibrated range.                                                 |              |                      |             |          |              |                                                                           |  |
| R                                       |  | Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.                          |              |                      |             |          |              |                                                                           |  |
|                                         |  |                                                                                                                          |              |                      |             |          |              |                                                                           |  |
| LQL                                     |  | Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.       |              |                      |             |          |              |                                                                           |  |
| EMPC                                    |  | Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure |              |                      |             |          |              |                                                                           |  |

| ALS Life Sciences                        |  |                                                                                                                          |                      |                       |                     |              |                                 |                                                                                  |  |
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| Laboratory Method Blank Analysis Report  |  |                                                                                                                          |                      |                       |                     |              |                                 |                                                                                  |  |
| <b>Sample Name</b>                       |  | <b>Method Blank</b>                                                                                                      |                      | Sampling Date         |                     | n/a          |                                 | <div>Approved:<br/><i>M.Elchawiche</i><br/>--e-signature--<br/>26-Jul-2024</div> |  |
| ALS Sample ID                            |  | WG3789754-4                                                                                                              |                      | Extraction Date       |                     | 6-Jul-24     |                                 |                                                                                  |  |
| Analysis Method                          |  | EPA 1613B                                                                                                                |                      | Sample Size           |                     | 3.00 g       |                                 |                                                                                  |  |
| Analysis Type                            |  | Blank                                                                                                                    |                      | Percent Moisture      |                     | n/a          |                                 |                                                                                  |  |
| Sample Matrix                            |  | Reagent                                                                                                                  |                      | Split Ratio           |                     | 4            |                                 |                                                                                  |  |
| <b>Run Information</b>                   |  |                                                                                                                          |                      | <b>Run 1</b>          |                     |              |                                 |                                                                                  |  |
| Filename                                 |  |                                                                                                                          |                      | 12-240715A11          |                     |              |                                 |                                                                                  |  |
| Run Date                                 |  |                                                                                                                          |                      | 15-Jul-24 16:55       |                     |              |                                 |                                                                                  |  |
| Final Volume                             |  |                                                                                                                          |                      | 10 uL                 |                     |              |                                 |                                                                                  |  |
| Dilution Factor                          |  |                                                                                                                          |                      | 1                     |                     |              |                                 |                                                                                  |  |
| Analysis Units                           |  |                                                                                                                          |                      | pg/g                  |                     |              |                                 |                                                                                  |  |
| Instrument - Column                      |  |                                                                                                                          |                      | HRMS-12 ZB-DX1171742  |                     |              |                                 |                                                                                  |  |
|                                          |  |                                                                                                                          |                      |                       |                     |              |                                 |                                                                                  |  |
| <b>Target Analytes</b>                   |  | <b>TEF<br/>(WHO 2005)</b>                                                                                                | <b>Ret.<br/>Time</b> | <b>Conc.<br/>pg/g</b> | <b>EDL<br/>pg/g</b> | <b>Flags</b> | <b>EMPC<br/>pg/g</b>            | <b>LQL</b>                                                                       |  |
| 2,3,7,8-TCDD                             |  | 1                                                                                                                        | 28.66                | <0.29                 | 0.29                | M,U          |                                 | 6.7                                                                              |  |
| 1,2,3,7,8-PeCDD                          |  | 1                                                                                                                        | 31.67                | <0.15                 | 0.15                | M,U          | 0.15                            | 33                                                                               |  |
| 1,2,3,4,7,8-HxCDD                        |  | 0.1                                                                                                                      | NotFnd               | <0.14                 | 0.14                | U            |                                 | 33                                                                               |  |
| 1,2,3,6,7,8-HxCDD                        |  | 0.1                                                                                                                      | 33.96                | <0.15                 | 0.15                | M,U          | 0.096                           | 33                                                                               |  |
| 1,2,3,7,8,9-HxCDD                        |  | 0.1                                                                                                                      | 34.15                | 0.198                 | 0.14                | M,J          |                                 | 33                                                                               |  |
| 1,2,3,4,6,7,8-HpCDD                      |  | 0.01                                                                                                                     | 36.47                | <0.33                 | 0.20                | J,R          | 0.33                            | 33                                                                               |  |
| OCDD                                     |  | 0.0003                                                                                                                   | 39.43                | <0.54                 | 0.45                | J,R          | 0.54                            | 67                                                                               |  |
| 2,3,7,8-TCDF                             |  | 0.1                                                                                                                      | 28.13                | <0.26                 | 0.26                | M,U          | 0.13                            | 6.7                                                                              |  |
| 1,2,3,7,8-PeCDF                          |  | 0.03                                                                                                                     | 30.91                | <0.30                 | 0.21                | M,J,R        | 0.30                            | 33                                                                               |  |
| 2,3,4,7,8-PeCDF                          |  | 0.3                                                                                                                      | 31.54                | <0.16                 | 0.16                | M,U          | 0.052                           | 33                                                                               |  |
| 1,2,3,4,7,8-HxCDF                        |  | 0.1                                                                                                                      | 33.28                | <0.15                 | 0.15                | U            |                                 | 33                                                                               |  |
| 1,2,3,6,7,8-HxCDF                        |  | 0.1                                                                                                                      | 33.40                | <0.17                 | 0.17                | U            | 0.11                            | 33                                                                               |  |
| 2,3,4,6,7,8-HxCDF                        |  | 0.1                                                                                                                      | 33.83                | <0.17                 | 0.17                | M,U          |                                 | 33                                                                               |  |
| 1,2,3,7,8,9-HxCDF                        |  | 0.1                                                                                                                      | 34.51                | <0.21                 | 0.21                | M,U          |                                 | 33                                                                               |  |
| 1,2,3,4,6,7,8-HpCDF                      |  | 0.01                                                                                                                     | 35.49                | <0.16                 | 0.069               | M,J,R        | 0.16                            | 33                                                                               |  |
| 1,2,3,4,7,8,9-HpCDF                      |  | 0.01                                                                                                                     | NotFnd               | <0.10                 | 0.10                | U            |                                 | 33                                                                               |  |
| OCDF                                     |  | 0.0003                                                                                                                   | NotFnd               | <0.36                 | 0.36                | U            |                                 | 67                                                                               |  |
| <b>Extraction Standards</b>              |  | <b>pg</b>                                                                                                                |                      | <b>% Rec</b>          | <b>Limits</b>       |              |                                 |                                                                                  |  |
| 13C12-2,3,7,8-TCDD                       |  | 4000                                                                                                                     | 28.64                | 70                    | 25-164              |              |                                 |                                                                                  |  |
| 13C12-1,2,3,7,8-PeCDD                    |  | 4000                                                                                                                     | 31.64                | 76                    | 25-181              |              |                                 |                                                                                  |  |
| 13C12-1,2,3,4,7,8-HxCDD                  |  | 4000                                                                                                                     | 33.86                | 86                    | 32-141              |              |                                 |                                                                                  |  |
| 13C12-1,2,3,6,7,8-HxCDD                  |  | 4000                                                                                                                     | 33.93                | 85                    | 28-130              |              |                                 |                                                                                  |  |
| 13C12-1,2,3,4,6,7,8-HpCDD                |  | 4000                                                                                                                     | 36.46                | 94                    | 23-140              |              |                                 |                                                                                  |  |
| 13C12-OCDD                               |  | 8000                                                                                                                     | 39.41                | 70                    | 17-157              |              |                                 |                                                                                  |  |
| 13C12-2,3,7,8-TCDF                       |  | 4000                                                                                                                     | 28.12                | 67                    | 24-169              |              |                                 |                                                                                  |  |
| 13C12-1,2,3,7,8-PeCDF                    |  | 4000                                                                                                                     | 30.91                | 72                    | 24-185              |              |                                 |                                                                                  |  |
| 13C12-2,3,4,7,8-PeCDF                    |  | 4000                                                                                                                     | 31.53                | 80                    | 21-178              |              |                                 |                                                                                  |  |
| 13C12-1,2,3,4,7,8-HxCDF                  |  | 4000                                                                                                                     | 33.28                | 91                    | 26-152              |              |                                 |                                                                                  |  |
| 13C12-1,2,3,6,7,8-HxCDF                  |  | 4000                                                                                                                     | 33.38                | 85                    | 26-123              |              |                                 |                                                                                  |  |
| 13C12-2,3,4,6,7,8-HxCDF                  |  | 4000                                                                                                                     | 33.81                | 89                    | 28-136              |              |                                 |                                                                                  |  |
| 13C12-1,2,3,7,8,9-HxCDF                  |  | 4000                                                                                                                     | 34.52                | 98                    | 29-147              |              |                                 |                                                                                  |  |
| 13C12-1,2,3,4,6,7,8-HpCDF                |  | 4000                                                                                                                     | 35.50                | 97                    | 28-143              |              |                                 |                                                                                  |  |
| 13C12-1,2,3,4,7,8,9-HpCDF                |  | 4000                                                                                                                     | 37.12                | 92                    | 26-138              |              |                                 |                                                                                  |  |
| <b>Cleanup Standard</b>                  |  | <b>pg</b>                                                                                                                |                      |                       |                     |              |                                 |                                                                                  |  |
| 37Cl4-2,3,7,8-TCDD (Cleanup)             |  | 80                                                                                                                       | 28.66                | 56                    | 35-197              |              |                                 |                                                                                  |  |
| <b>Homologue Group Totals</b>            |  |                                                                                                                          | <b># peaks</b>       | <b>Conc.<br/>pg/g</b> | <b>EDL<br/>pg/g</b> |              |                                 |                                                                                  |  |
| Total-TCDD                               |  |                                                                                                                          | 0                    | <0.29                 | 0.29                | U            | 6.7                             |                                                                                  |  |
| Total-PeCDD                              |  |                                                                                                                          | 0                    | <0.15                 | 0.15                | U            | 33                              |                                                                                  |  |
| Total-HxCDD                              |  |                                                                                                                          | 1                    | 0.198                 | 0.15                |              | 33                              |                                                                                  |  |
| Total-HpCDD                              |  |                                                                                                                          | 0                    | <0.20                 | 0.20                | U            | 33                              |                                                                                  |  |
| Total-TCDF                               |  |                                                                                                                          | 0                    | <0.26                 | 0.26                | U            | 6.7                             |                                                                                  |  |
| Total-PeCDF                              |  |                                                                                                                          | 0                    | <0.21                 | 0.21                | U            | 33                              |                                                                                  |  |
| Total-HxCDF                              |  |                                                                                                                          | 3                    | 0.404                 | 0.21                |              | 33                              |                                                                                  |  |
| Total-HpCDF                              |  |                                                                                                                          | 0                    | <0.10                 | 0.10                | U            | 33                              |                                                                                  |  |
|                                          |  |                                                                                                                          |                      |                       |                     |              |                                 |                                                                                  |  |
| <b>Toxic Equivalency - (WHO 2005)</b>    |  |                                                                                                                          |                      | <b>pg/g</b>           |                     |              |                                 |                                                                                  |  |
| <b>Lower Bound PCDD/F TEQ (WHO 2005)</b> |  |                                                                                                                          |                      | 0.0198                |                     |              |                                 |                                                                                  |  |
| <b>Mid Point PCDD/F TEQ (WHO 2005)</b>   |  |                                                                                                                          |                      | 0.341                 |                     |              |                                 |                                                                                  |  |
| <b>Upper Bound PCDD/F TEQ (WHO 2005)</b> |  |                                                                                                                          |                      | 0.648                 |                     |              |                                 |                                                                                  |  |
|                                          |  |                                                                                                                          |                      |                       |                     |              |                                 |                                                                                  |  |
| EDL                                      |  | Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.          |                      |                       |                     |              |                                 |                                                                                  |  |
| TEF                                      |  | Indicates the Toxic Equivalency Factor                                                                                   |                      |                       |                     | TEQ          | Indicates the Toxic Equivalency |                                                                                  |  |
| M                                        |  | Indicates that a peak has been manually integrated.                                                                      |                      |                       |                     |              |                                 |                                                                                  |  |
| U                                        |  | Indicates that this compound was not detected above the EDL.                                                             |                      |                       |                     |              |                                 |                                                                                  |  |
|                                          |  |                                                                                                                          |                      |                       |                     |              |                                 |                                                                                  |  |
| J                                        |  | Indicates that a target analyte was detected below the calibrated range.                                                 |                      |                       |                     |              |                                 |                                                                                  |  |
| R                                        |  | Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.                          |                      |                       |                     |              |                                 |                                                                                  |  |
|                                          |  |                                                                                                                          |                      |                       |                     |              |                                 |                                                                                  |  |
| LQL                                      |  | Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.       |                      |                       |                     |              |                                 |                                                                                  |  |
| EMPC                                     |  | Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure |                      |                       |                     |              |                                 |                                                                                  |  |

ALS Life Sciences

Laboratory Control Sample Analysis Report

Sample Name

ALS Sample ID

Analysis Method

Analysis Type

Sample Matrix

Laboratory Control Sample

WG3789754-2

EPA 1613B

LCS

QC

Sampling Date

Extraction Date

Sample Size

Percent Moisture

Split Ratio

n/a

6-Jul-24

1

n/a

n/a

1

Approved:

M.Elchawiche

--e-signature--

26-Jul-2024

Run Information

Run 1

Filename

Run Date

Final Volume

Dilution Factor

Analysis Units

Instrument - Column

12-240715A04

15-Jul-24 13:37

10 uL

1

%

HRMS-12 ZB-DX1171742

| Target Analytes              | pg   | Ret. Time | % Rec | Limits | Flags |
|------------------------------|------|-----------|-------|--------|-------|
| 2,3,7,8-TCDD                 | 400  | 28.67     | 93    | 67-158 |       |
| 1,2,3,7,8-PeCDD              | 2000 | 31.65     | 113   | 70-142 |       |
| 1,2,3,4,7,8-HxCDD            | 2000 | 33.87     | 103   | 70-164 |       |
| 1,2,3,6,7,8-HxCDD            | 2000 | 33.95     | 99    | 76-134 |       |
| 1,2,3,7,8,9-HxCDD            | 2000 | 34.14     | 112   | 64-162 |       |
| 1,2,3,4,6,7,8-HpCDD          | 2000 | 36.47     | 104   | 70-140 |       |
| OCDD                         | 4000 | 39.42     | 98    | 78-144 |       |
| 2,3,7,8-TCDF                 | 400  | 28.14     | 100   | 75-158 |       |
| 1,2,3,7,8-PeCDF              | 2000 | 30.91     | 123   | 80-134 |       |
| 2,3,4,7,8-PeCDF              | 2000 | 31.54     | 102   | 68-160 |       |
| 1,2,3,4,7,8-HxCDF            | 2000 | 33.29     | 100   | 72-134 |       |
| 1,2,3,6,7,8-HxCDF            | 2000 | 33.39     | 107   | 84-130 |       |
| 2,3,4,6,7,8-HxCDF            | 2000 | 33.82     | 98    | 70-156 |       |
| 1,2,3,7,8,9-HxCDF            | 2000 | 34.54     | 107   | 78-130 |       |
| 1,2,3,4,6,7,8-HpCDF          | 2000 | 35.51     | 104   | 82-122 |       |
| 1,2,3,4,7,8,9-HpCDF          | 2000 | 37.14     | 118   | 78-138 |       |
| OCDF                         | 4000 | 39.79     | 114   | 63-170 |       |
| Extraction Standards         | pg   |           | % Rec | Limits |       |
| 13C12-2,3,7,8-TCDD           | 4000 | 28.64     | 54    | 20-175 |       |
| 13C12-1,2,3,7,8-PeCDD        | 4000 | 31.64     | 72    | 21-227 |       |
| 13C12-1,2,3,4,7,8-HxCDD      | 4000 | 33.86     | 54    | 21-193 |       |
| 13C12-1,2,3,6,7,8-HxCDD      | 4000 | 33.93     | 55    | 25-163 |       |
| 13C12-1,2,3,4,6,7,8-HpCDD    | 4000 | 36.46     | 65    | 26-166 |       |
| 13C12-OCDD                   | 8000 | 39.41     | 64    | 13-138 |       |
| 13C12-2,3,7,8-TCDF           | 4000 | 28.13     | 56    | 22-152 |       |
| 13C12-1,2,3,7,8-PeCDF        | 4000 | 30.91     | 63    | 21-192 |       |
| 13C12-2,3,4,7,8-PeCDF        | 4000 | 31.53     | 77    | 13-328 |       |
| 13C12-1,2,3,4,7,8-HxCDF      | 4000 | 33.28     | 58    | 19-202 |       |
| 13C12-1,2,3,6,7,8-HxCDF      | 4000 | 33.38     | 59    | 21-159 |       |
| 13C12-2,3,4,6,7,8-HxCDF      | 4000 | 33.81     | 59    | 22-176 |       |
| 13C12-1,2,3,7,8,9-HxCDF      | 4000 | 34.52     | 67    | 17-205 |       |
| 13C12-1,2,3,4,6,7,8-HpCDF    | 4000 | 35.50     | 68    | 21-158 |       |
| 13C12-1,2,3,4,7,8,9-HpCDF    | 4000 | 37.12     | 67    | 20-186 |       |
| Cleanup Standard             | pg   |           |       |        |       |
| 37Cl4-2,3,7,8-TCDD (Cleanup) | 80   | 28.66     | 76    | 31-191 |       |

ALS Canada Ltd

L2756078 DX 240816 (dwt)

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## Certificate of Analysis

**ALS Project Contact:** DBROWN  
**ALS Project ID:** 24593  
**ALS WO#:** L2756078  
**Date of Report:** 15-Aug-24  
**Date of Sample Receipt:** 5-Jun-24

**Client Name:** Wildland Management Consultants Ltd.  
**Client Address:** 50345 Range Road 222  
Leduc County, AB T0B 3M2  
Canada  
**Client Contact:** Lawrence Brusnyk  
**Client Project ID:** SHTC 11-086

**COMMENTS:** PCB Congeners by EPA 1668C

**PCB Congener Group Totals and Total PCB are a sum of detected values, including EMPC values, consistent with USEPA CLP SOW CBC1.2**

All results have been reported on a dry weight basis.

Some results have been reported from the analysis of diluted extracts due to interferences causing suppression.

Where detected, the results for PCB-126 and PCB-169 have been reported from the analysis of an extract that has received additional preparation steps to remove interfering PCB congeners.

Certified by:

A handwritten signature in black ink, appearing to read "Steve Kennedy", written over a horizontal line.

Steve Kennedy  
Technical Supervisor

Results in this certificate relate only to the samples as submitted to the laboratory.  
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| ALS Life Sciences              |                 |                  |                  |                  |                   |                   |
|--------------------------------|-----------------|------------------|------------------|------------------|-------------------|-------------------|
| Sample Analysis Summary Report |                 |                  |                  |                  |                   |                   |
| Sample Name                    | PLOT 4 - 6 JARS | PLOT 11 - 4 JARS | PLOT 70 - 3 JARS | PLOT 71 - 5 JARS | PLOT 109 - 5 JARS | PLOT 110 - 4 JARS |
| ALS Sample ID                  | L2756078-1      | L2756078-2       | L2756078-3       | L2756078-4       | L2756078-5        | L2756078-6        |
| Sample Size                    | 2.87            | 3.00             | 2.93             | 2.77             | 2.89              | 2.95              |
| Sample size units              | g dwt           | g dwt            | g dwt            | g dwt            | g dwt             | g dwt             |
| Percent Moisture               | 72.0%           | 70.9%            | 70.8%            | 72.6%            | 71.9%             | 71.5%             |
| Sample Matrix                  | Tissue          | Tissue           | Tissue           | Tissue           | Tissue            | Tissue            |
| Sampling Date                  | 25-May-24       | 25-May-24        | 25-May-24        | 25-May-24        | 25-May-24         | 25-May-24         |
| Extraction Date                | 6-Jul-24        | 6-Jul-24         | 6-Jul-24         | 6-Jul-24         | 6-Jul-24          | 6-Jul-24          |
| Target Analytes                | pg/g dwt        | pg/g dwt         | pg/g dwt         | pg/g dwt         | pg/g dwt          | pg/g dwt          |
| PCB-001                        | 3.23            | 3.59             | <1.5             | <1.4             | <2.9              | <2.0              |
| PCB-002                        | <2.0            | <1.4             | <1.7             | <1.6             | <3.6              | <2.2              |
| PCB-003                        | <2.2            | 5.54             | <1.9             | <2.3             | <4.7              | <2.4              |
| PCB-004                        | <14             | <13              | <12              | <14              | <25               | <11               |
| PCB-010                        | <8.5            | <7.6             | <6.8             | <8.0             | <12               | <6.2              |
| PCB-009                        | <9.0            | <8.1             | <7.2             | <8.5             | <13               | <6.6              |
| PCB-007                        | <9.1            | <8.2             | <7.3             | <8.6             | <13               | <6.5              |
| PCB-006                        | <9.0            | <8.0             | <7.2             | <8.4             | <13               | <6.5              |
| PCB-005                        | <10             | <9.3             | <8.4             | <9.8             | <14               | <6.9              |
| PCB-008                        | <7.8            | <7.0             | <6.3             | <7.4             | <12               | <6.1              |
| PCB-014                        | <12             | <13              | <9.5             | <9.6             | <28               | <15               |
| PCB-011                        | 95.7            | 118              | 111              | 143              | 129               | 89.9              |
| PCB-012/013                    | <12             | <13              | <9.4             | <9.5             | <28               | <14               |
| PCB-015                        | <13             | <15              | <10              | <11              | <27               | <15               |
| PCB-019                        | <4.4            | <4.1             | <3.3             | <3.5             | <7.6              | <3.4              |
| PCB-018/030                    | <6.5            | 6.81             | 5.86             | 4.67             | 11.2              | <4.9              |
| PCB-017                        | <4.7            | <4.3             | <2.9             | <3.8             | <5.2              | <2.6              |
| PCB-027                        | <3.6            | <3.3             | <2.2             | <2.9             | <3.8              | <2.0              |
| PCB-024                        | <4.0            | <3.7             | <2.5             | <3.2             | <4.4              | <2.2              |
| PCB-016                        | <5.3            | <4.9             | <3.3             | <4.2             | <5.9              | <3.0              |
| PCB-032                        | <3.3            | <3.0             | <2.0             | <2.6             | <3.5              | <1.8              |
| PCB-034                        | <6.2            | <3.5             | <3.3             | <3.7             | <6.0              | <3.6              |
| PCB-023                        | <5.9            | <3.4             | <3.2             | <3.6             | <5.9              | <3.5              |
| PCB-026/029                    | <6.0            | <3.2             | <3.0             | <3.4             | <5.5              | <4.8              |
| PCB-025                        | <5.6            | <3.2             | <3.0             | <3.4             | <5.4              | <3.2              |
| PCB-031                        | 31.5            | 10.7             | <6.8             | <6.8             | <18               | <9.4              |
| PCB-020/028                    | 478             | 65.4             | 31.6             | <15              | 229               | 362               |
| PCB-021/033                    | 21.2            | <7.7             | <3.1             | <4.2             | <10               | <8.1              |
| PCB-022                        | <11             | <3.7             | <3.5             | <3.9             | <6.2              | 9.77              |
| PCB-036                        | <5.4            | <3.1             | <2.9             | <3.3             | <5.2              | <3.1              |
| PCB-039                        | <6.6            | <3.8             | <3.5             | <4.0             | <6.3              | <3.8              |
| PCB-038                        | <6.3            | <3.6             | <3.3             | <3.8             | <6.0              | <3.6              |
| PCB-035                        | <6.5            | <3.7             | <3.5             | <3.9             | <6.2              | <3.7              |
| PCB-037                        | 91.7            | 35.2             | <3.5             | <4.0             | 55.9              | 30.0              |
| PCB-054                        | <1.6            | <0.90            | <1.2             | <1.6             | <3.3              | <1.5              |
| PCB-050/053                    | <3.4            | <2.8             | <3.0             | <3.7             | <5.6              | <2.4              |
| PCB-045/051                    | <3.6            | <2.9             | <3.1             | <3.9             | <5.9              | <2.5              |
| PCB-046                        | <3.9            | <3.2             | <3.4             | <4.2             | <6.5              | <2.8              |
| PCB-052                        | 88.9            | 32.8             | <17              | <14              | 51.4              | 72.3              |
| PCB-073                        | <2.4            | <2.0             | <2.1             | <2.7             | <4.1              | <1.8              |
| PCB-043                        | <3.8            | <3.1             | <3.3             | <4.2             | <6.7              | <2.9              |
| PCB-049/069                    | <22             | <4.9             | <2.6             | <3.3             | 19.9              | 27.8              |
| PCB-048                        | 5.07            | <2.9             | <3.1             | <3.8             | <5.6              | <2.4              |
| PCB-044/047/065                | 78.6            | 22.2             | 17.1             | <11              | <60               | 606               |
| PCB-059/062/075                | <12             | <2.8             | <2.2             | <2.8             | <13               | 76.1              |
| PCB-042                        | 7.65            | <3.2             | <3.4             | <4.2             | <6.5              | <2.8              |
| PCB-040/041/071                | 11.6            | 4.72             | <3.1             | <3.9             | <5.7              | <2.5              |
| PCB-064                        | <29             | <7.9             | <3.2             | <2.8             | <15               | 14.9              |
| PCB-072                        | <5.7            | <3.2             | <1.9             | <1.5             | <6.4              | 23.5              |
| PCB-068                        | <5.4            | <3.0             | <1.8             | <1.4             | <6.4              | <5.8              |
| PCB-057                        | <5.9            | <3.3             | <2.0             | <1.5             | <6.8              | <3.9              |
| PCB-058                        | <5.7            | <3.1             | <1.9             | <1.5             | <6.5              | <3.8              |
| PCB-067                        | <5.0            | <2.8             | <1.7             | <1.3             | <5.6              | <3.2              |
| PCB-063                        | 38.1            | <4.2             | <1.8             | <1.4             | 20.8              | 79.7              |
| PCB-061/070/074/076            | 2890            | 444              | <26              | 19.7             | 1400              | 841               |
| PCB-066                        | 742             | 83.4             | <8.2             | <4.2             | 316               | 397               |
| PCB-055                        | <6.1            | <3.4             | <2.0             | <1.6             | <7.1              | <4.1              |
| PCB-056                        | <46             | 10.1             | <1.8             | <1.4             | 31.7              | <4.4              |
| PCB-060                        | 496             | 60.0             | 6.67             | 5.13             | 218               | 111               |
| PCB-080                        | <4.8            | <2.6             | <1.6             | <1.2             | <5.4              | <3.1              |
| PCB-079                        | 16.9            | <3.2             | <1.7             | <1.3             | <7.4              | 13.2              |
| PCB-078                        | <6.4            | <3.5             | <2.1             | <1.7             | <7.0              | <4.0              |
| PCB-081                        | <74             | <16              | <2.1             | <1.7             | 38.2              | <8.9              |
| PCB-077                        | 841             | 236              | <4.0             | <2.9             | 366               | 173               |
| PCB-104                        | <2.3            | <2.2             | <2.0             | <2.2             | <2.9              | <1.8              |
| PCB-096                        | <2.9            | <3.0             | <2.7             | <3.2             | <4.0              | <2.5              |
| PCB-103                        | <6.2            | <4.6             | <3.3             | <3.3             | <5.7              | <4.5              |
| PCB-094                        | <6.7            | <5.0             | <3.6             | <3.5             | <6.2              | <4.9              |
| PCB-095                        | 189             | 41.8             | <4.1             | <4.1             | 77.2              | <31               |
| PCB-093/098/100/102            | <5.8            | <4.3             | <3.1             | <3.1             | <5.4              | <18               |

| ALS Life Sciences              |                 |                  |                  |                  |                   |                   |
|--------------------------------|-----------------|------------------|------------------|------------------|-------------------|-------------------|
| Sample Analysis Summary Report |                 |                  |                  |                  |                   |                   |
| Sample Name                    | PLOT 4 - 6 JARS | PLOT 11 - 4 JARS | PLOT 70 - 3 JARS | PLOT 71 - 5 JARS | PLOT 109 - 5 JARS | PLOT 110 - 4 JARS |
| ALS Sample ID                  | L2756078-1      | L2756078-2       | L2756078-3       | L2756078-4       | L2756078-5        | L2756078-6        |
| Sample Size                    | 2.87            | 3.00             | 2.93             | 2.77             | 2.89              | 2.95              |
| Sample size units              | g dwt           | g dwt            | g dwt            | g dwt            | g dwt             | g dwt             |
| Percent Moisture               | 72.0%           | 70.9%            | 70.8%            | 72.6%            | 71.9%             | 71.5%             |
| Sample Matrix                  | Tissue          | Tissue           | Tissue           | Tissue           | Tissue            | Tissue            |
| Sampling Date                  | 25-May-24       | 25-May-24        | 25-May-24        | 25-May-24        | 25-May-24         | 25-May-24         |
| Extraction Date                | 6-Jul-24        | 6-Jul-24         | 6-Jul-24         | 6-Jul-24         | 6-Jul-24          | 6-Jul-24          |
| Target Analytes                | pg/g dwt        | pg/g dwt         | pg/g dwt         | pg/g dwt         | pg/g dwt          | pg/g dwt          |
| PCB-088/091                    | 29.4            | <4.7             | <3.4             | <3.3             | <13               | 15.6              |
| PCB-084                        | 43.9            | <7.8             | <3.5             | <3.5             | <17               | <4.8              |
| PCB-089                        | <7.9            | <5.8             | <4.2             | <4.2             | <7.2              | <5.7              |
| PCB-121                        | <4.5            | <3.3             | <2.4             | <2.3             | <4.0              | <3.2              |
| PCB-092                        | 136             | 33.3             | <3.8             | <3.7             | 58.3              | 187               |
| PCB-090/101/113                | 734             | 132              | <8.8             | <3.9             | 320               | 505               |
| PCB-083/099                    | 2760            | 344              | 25.3             | 10.9             | 1090              | 2560              |
| PCB-112                        | <4.2            | <3.1             | <2.2             | <2.2             | <3.8              | <3.0              |
| PCB-086/087/097/109/119/125    | 361             | 60.8             | <2.6             | <2.6             | 156               | 133               |
| PCB-085/110/115/116/117        | 1740            | 299              | <8.8             | 7.50             | 792               | 636               |
| PCB-082                        | 77.6            | 12.9             | <4.3             | <4.3             | <20               | <5.9              |
| PCB-111                        | <8.2            | <3.2             | <2.3             | <2.3             | <3.8              | <16               |
| PCB-120                        | <32             | <4.6             | <2.2             | <2.2             | <23               | 61.7              |
| PCB-108/124                    | 87.7            | <22              | <2.9             | <2.7             | 38.7              | <26               |
| PCB-107                        | 905             | 125              | <3.3             | <2.6             | 431               | 577               |
| PCB-123                        | 118             | <14              | <3.3             | <3.3             | 42.3              | <45               |
| PCB-106                        | <9.1            | <5.0             | <3.1             | <3.0             | <11               | <3.6              |
| PCB-118                        | 41900           | 7550             | 129              | <74              | 24700             | 11100             |
| PCB-122                        | <120            | <6.1             | <3.8             | <3.6             | <13               | <4.3              |
| PCB-114                        | 781             | <92              | <3.4             | <3.2             | 299               | 207               |
| PCB-105                        | 8140            | 1070             | <21              | 14.4             | 3660              | 1890              |
| PCB-127                        | <26             | <4.9             | <3.1             | <2.9             | <12               | <3.7              |
| PCB-126                        | 2270            | 368              | 7.55             | <5.0             | 1180              | 191               |
| PCB-155                        | <0.94           | <0.97            | <0.96            | <1.5             | 1.38              | <1.2              |
| PCB-152                        | <1.8            | <1.9             | <1.9             | <2.9             | <2.6              | <2.3              |
| PCB-150                        | <1.5            | <1.4             | <1.5             | <2.2             | <1.9              | <1.8              |
| PCB-136                        | 47.6            | <8.7             | <1.7             | <2.6             | 17.8              | 4.83              |
| PCB-145                        | <1.6            | <1.6             | <1.7             | <2.5             | <2.2              | <2.0              |
| PCB-148                        | <2.2            | <2.2             | <2.3             | <3.5             | <2.9              | 8.24              |
| PCB-135/151                    | 672             | 136              | <3.2             | <4.0             | 213               | 277               |
| PCB-154                        | <1.4            | <1.4             | <1.5             | <2.2             | <2.3              | 104               |
| PCB-144                        | 75.0            | 13.0             | <2.3             | <3.5             | 27.1              | 16.0              |
| PCB-147/149                    | 1120            | 203              | <7.5             | <5.5             | <11               | 545               |
| PCB-134/143                    | 35.1            | 10.1             | <3.3             | <4.7             | <17               | <11               |
| PCB-139/140                    | 82.7            | <13              | <2.6             | <3.7             | 50.2              | 55.6              |
| PCB-131                        | <14             | <9.0             | <3.3             | <4.7             | <13               | <11               |
| PCB-142                        | <14             | <8.8             | <3.3             | <4.7             | <13               | <11               |
| PCB-132                        | 411             | 67.6             | <3.1             | <4.4             | 172               | 85.3              |
| PCB-133                        | 397             | <20              | <2.9             | <4.2             | 107               | 363               |
| PCB-165                        | 31.9            | <5.7             | <2.1             | <3.0             | 18.8              | 23.6              |
| PCB-146                        | 2600            | 301              | <8.5             | <5.4             | 1070              | 2010              |
| PCB-161                        | <7.7            | <5.0             | <1.9             | <2.6             | <7.3              | <6.2              |
| PCB-153/168                    | 29600           | 5830             | 124              | 71.6             | 22300             | 13800             |
| PCB-141                        | 672             | 158              | <2.6             | <3.7             | 391               | 271               |
| PCB-130                        | 1370            | 228              | <3.3             | <4.5             | 737               | 704               |
| PCB-137/164                    | 520             | 88.5             | 2.79             | <3.3             | 240               | 220               |
| PCB-129/138/163                | 28800           | 5280             | 111              | 62.9             | 16800             | 10300             |
| PCB-160                        | <8.6            | <5.6             | <2.1             | <3.0             | <8.1              | <6.9              |
| PCB-158                        | 1500            | 317              | <5.3             | <2.4             | 1030              | 553               |
| PCB-128/166                    | 2500            | 490              | 9.98             | <4.5             | 1510              | 844               |
| PCB-159                        | 47.9            | 13.6             | <1.9             | <2.7             | 26.6              | <11               |
| PCB-162                        | 255             | 47.6             | <2.0             | <2.9             | 148               | 83.1              |
| PCB-167                        | 4870            | 1130             | <11              | <8.4             | 3090              | 970               |
| PCB-156/157                    | 10500           | 2500             | 26.7             | <12              | 6330              | 1940              |
| PCB-169                        | 122             | 29.9             | <2.6             | <3.1             | 64.3              | 10.9              |
| PCB-188                        | <3.4            | <2.8             | <1.1             | <2.0             | <3.8              | <4.1              |
| PCB-179                        | 115             | 22.6             | <1.3             | <2.4             | 34.7              | 16.8              |
| PCB-184                        | <3.8            | <3.1             | <1.2             | <2.3             | <4.3              | <4.7              |
| PCB-176                        | 50.8            | 9.09             | <1.3             | <2.4             | <12               | <4.9              |
| PCB-186                        | <4.4            | <3.6             | <1.4             | <2.6             | <4.8              | <5.3              |
| PCB-178                        | 4690            | 920              | <18              | 11.0             | 2180              | 1480              |
| PCB-175                        | 185             | <23              | <1.8             | <3.4             | <50               | 55.5              |
| PCB-187                        | 28000           | 4690             | 70.9             | 48.2             | 13400             | 7310              |
| PCB-182                        | <5.2            | <6.1             | <1.6             | <3.1             | <5.5              | <6.1              |
| PCB-183                        | 6330            | 843              | <15              | <9.8             | 2400              | 1720              |
| PCB-185                        | <130            | 35.6             | <1.9             | <3.6             | 52.1              | <57               |
| PCB-174                        | 718             | 130              | <1.7             | <3.2             | 248               | 186               |
| PCB-177                        | 12400           | 2880             | <31              | <15              | 5980              | 3370              |
| PCB-181                        | <65             | <18              | <1.9             | <3.6             | <51               | <11               |
| PCB-171/173                    | 1480            | <330             | <5.6             | <3.5             | 932               | 480               |
| PCB-172                        | 7260            | 923              | <15              | <7.9             | 2500              | 1290              |

| ALS Life Sciences              |                 |                  |                  |                  |                   |                   |
|--------------------------------|-----------------|------------------|------------------|------------------|-------------------|-------------------|
| Sample Analysis Summary Report |                 |                  |                  |                  |                   |                   |
| Sample Name                    | PLOT 4 - 6 JARS | PLOT 11 - 4 JARS | PLOT 70 - 3 JARS | PLOT 71 - 5 JARS | PLOT 109 - 5 JARS | PLOT 110 - 4 JARS |
| ALS Sample ID                  | L2756078-1      | L2756078-2       | L2756078-3       | L2756078-4       | L2756078-5        | L2756078-6        |
| Sample Size                    | 2.87            | 3.00             | 2.93             | 2.77             | 2.89              | 2.95              |
| Sample size units              | g dwt           | g dwt            | g dwt            | g dwt            | g dwt             | g dwt             |
| Percent Moisture               | 72.0%           | 70.9%            | 70.8%            | 72.6%            | 71.9%             | 71.5%             |
| Sample Matrix                  | Tissue          | Tissue           | Tissue           | Tissue           | Tissue            | Tissue            |
| Sampling Date                  | 25-May-24       | 25-May-24        | 25-May-24        | 25-May-24        | 25-May-24         | 25-May-24         |
| Extraction Date                | 6-Jul-24        | 6-Jul-24         | 6-Jul-24         | 6-Jul-24         | 6-Jul-24          | 6-Jul-24          |
| Target Analytes                | pg/g dwt        | pg/g dwt         | pg/g dwt         | pg/g dwt         | pg/g dwt          | pg/g dwt          |
| PCB-192                        | <4.9            | <4.0             | <1.5             | <2.9             | <6.8              | <5.4              |
| PCB-180/193                    | 74800           | 17300            | 183              | <91              | 46700             | 15900             |
| PCB-191                        | <140            | <25              | <1.3             | <2.5             | <62               | 78.7              |
| PCB-170                        | 11300           | 2600             | 32.3             | 18.0             | 7040              | 3070              |
| PCB-190                        | 9410            | 2490             | 25.6             | <17              | 5450              | 1520              |
| PCB-189                        | 2460            | 680              | 10.2             | <6.4             | 1500              | 404               |
| PCB-202                        | 1770            | 498              | 16.5             | 5.94             | 926               | 402               |
| PCB-201                        | 275             | 58.7             | <0.80            | <1.3             | 120               | <67               |
| PCB-204                        | <1.5            | <1.5             | <0.79            | <1.3             | <3.3              | <1.4              |
| PCB-197                        | 170             | 42.2             | <1.6             | <1.4             | 93.7              | 46.5              |
| PCB-200                        | <27             | <4.2             | <0.87            | <1.4             | 10.7              | 4.42              |
| PCB-198/199                    | 33500           | 6780             | <94              | 58.9             | 17200             | 4870              |
| PCB-196                        | 2500            | 391              | 8.73             | <2.8             | 1140              | 635               |
| PCB-203                        | 14900           | 3760             | 44.3             | <34              | 8720              | 2550              |
| PCB-195                        | 5470            | 1540             | 17.0             | <5.7             | 4430              | 1160              |
| PCB-194                        | 33300           | 8750             | 87.7             | 55.9             | 20900             | 4960              |
| PCB-205                        | 1780            | 532              | 8.22             | <5.3             | 1130              | 275               |
| PCB-208                        | 799             | 200              | 16.6             | <9.7             | 371               | 134               |
| PCB-207                        | 205             | 64.0             | <5.7             | <3.3             | 128               | 56.2              |
| PCB-206                        | 6810            | 1830             | 66.0             | 49.7             | 4090              | 944               |
| PCB-209                        | 518             | 299              | 51.3             | 39.5             | 276               | 115               |
| Extraction Standards           | % Rec           | % Rec            | % Rec            | % Rec            | % Rec             | % Rec             |
| 13C12-PCB-001                  | 34              | 35               | 41               | 44               | 19                | 36                |
| 13C12-PCB-003                  | 37              | 41               | 44               | 47               | 23                | 41                |
| 13C12-PCB-004                  | 47              | 49               | 56               | 55               | 27                | 49                |
| 13C12-PCB-015                  | 44              | 47               | 55               | 54               | 35                | 55                |
| 13C12-PCB-019                  | 50              | 51               | 58               | 58               | 31                | 52                |
| 13C12-PCB-037                  | 58              | 63               | 70               | 60               | 41                | 62                |
| 13C12-PCB-054                  | 53              | 57               | 67               | 55               | 35                | 55                |
| 13C12-PCB-081                  | 70              | 71               | 81               | 74               | 54                | 82                |
| 13C12-PCB-077                  | 66              | 68               | 80               | 73               | 53                | 81                |
| 13C12-PCB-104                  | 61              | 67               | 72               | 73               | 54                | 82                |
| 13C12-PCB-123                  | 72              | 75               | 88               | 77               | 61                | 91                |
| 13C12-PCB-118                  | 94              | 86               | 98               | 94               | 73                | 106               |
| 13C12-PCB-114                  | 70              | 74               | 85               | 75               | 57                | 86                |
| 13C12-PCB-105                  | 75              | 76               | 89               | 81               | 63                | 90                |
| 13C12-PCB-126                  | 82              | 61               | 89               | 79               | 71                | 55                |
| 13C12-PCB-155                  | 76              | 75               | 93               | 78               | 59                | 87                |
| 13C12-PCB-167                  | 76              | 72               | 92               | 80               | 61                | 88                |
| 13C12-PCB-156/157              | 69              | 69               | 88               | 76               | 59                | 82                |
| 13C12-PCB-169                  | 90              | 82               | 92               | 76               | 93                | 75                |
| 13C12-PCB-188                  | 69              | 66               | 89               | 75               | 56                | 82                |
| 13C12-PCB-189                  | 70              | 71               | 90               | 74               | 60                | 81                |
| 13C12-PCB-202                  | 79              | 73               | 93               | 79               | 60                | 89                |
| 13C12-PCB-205                  | 74              | 72               | 97               | 78               | 62                | 90                |
| 13C12-PCB-208                  | 74              | 70               | 84               | 52               | 62                | 78                |
| 13C12-PCB-206                  | 76              | 77               | 97               | 81               | 63                | 92                |
| 13C12-PCB-209                  | 83              | 83               | 103              | 90               | 68                | 99                |
| Cleanup Standards              |                 |                  |                  |                  |                   |                   |
| 13C12-PCB-028                  | 55              | 51               | 59               | 47               | 43                | 59                |
| 13C12-PCB-111                  | 71              | 65               | 73               | 65               | 62                | 80                |
| 13C12-PCB-178                  | 70              | 66               | 74               | 61               | 65                | 84                |



| ALS Life Sciences              |                 |                  |                  |                  |                   |                   |
|--------------------------------|-----------------|------------------|------------------|------------------|-------------------|-------------------|
| Sample Analysis Summary Report |                 |                  |                  |                  |                   |                   |
| Sample Name                    | PLOT 4 - 6 JARS | PLOT 11 - 4 JARS | PLOT 70 - 3 JARS | PLOT 71 - 5 JARS | PLOT 109 - 5 JARS | PLOT 110 - 4 JARS |
| ALS Sample ID                  | L2756078-1      | L2756078-2       | L2756078-3       | L2756078-4       | L2756078-5        | L2756078-6        |
| Sample Size                    | 2.87            | 3.00             | 2.93             | 2.77             | 2.89              | 2.95              |
| Sample size units              | g dwt           | g dwt            | g dwt            | g dwt            | g dwt             | g dwt             |
| Percent Moisture               | 72.0%           | 70.9%            | 70.8%            | 72.6%            | 71.9%             | 71.5%             |
| Sample Matrix                  | Tissue          | Tissue           | Tissue           | Tissue           | Tissue            | Tissue            |
| Sampling Date                  | 25-May-24       | 25-May-24        | 25-May-24        | 25-May-24        | 25-May-24         | 25-May-24         |
| Extraction Date                | 6-Jul-24        | 6-Jul-24         | 6-Jul-24         | 6-Jul-24         | 6-Jul-24          | 6-Jul-24          |
| Target Analytes                | pg/g dwt        | pg/g dwt         | pg/g dwt         | pg/g dwt         | pg/g dwt          | pg/g dwt          |
| Homologue Group Totals         | pg/g dwt        | pg/g dwt         | pg/g dwt         | pg/g dwt         | pg/g dwt          | pg/g dwt          |
| Total MonoCB                   | 3.23            | 9.13             | <1.5             | 2.30             | 8.30              | <2.0              |
| Total DiCB                     | 95.7            | 118              | 111              | 143              | 129               | 89.9              |
| Total TriCB                    | 646             | 126              | 44.3             | 30.7             | 324               | 429               |
| Total TetraCB                  | 5400            | 932              | 82.2             | 56.9             | 2560              | 2450              |
| Total PentaCB                  | 60500           | 10200            | 204              | 116              | 32900             | 18200             |
| Total HexaCB                   | 86200           | 16900            | 316              | 170              | 54400             | 33200             |
| Total HeptaCB                  | 160000          | 33900            | 407              | 224              | 88600             | 36900             |
| Total OctaCB                   | 93700           | 22400            | 278              | 169              | 54700             | 15000             |
| Total NonaCB                   | 7810            | 2090             | 88.3             | 62.7             | 4590              | 1130              |
| DecaCB                         | 518             | 299              | 51.3             | 39.5             | 276               | 115               |
| Total PCB                      | 414000          | 86900            | 1580             | 1010             | 238000            | 108000            |
| Best Aroclor Match             | 1262            | 1262             | 1262             | 1262             | 1262              | 1260/1262         |
| Toxic Equivalency - (WHO 2005) |                 |                  |                  |                  |                   |                   |
| Lower Bound PCB TEQ            | 233             | 38.1             | 0.760            | 0.000432         | 121               | 19.9              |
| Mid Point PCB TEQ              | 233             | 38.1             | 0.840            | 0.551            | 121               | 19.9              |
| Upper Bound PCB TEQ            | 233             | 38.1             | 0.840            | 0.597            | 121               | 19.9              |

| ALS Life Sciences              |                   |                  |                   |                   |
|--------------------------------|-------------------|------------------|-------------------|-------------------|
| Sample Analysis Summary Report |                   |                  |                   |                   |
| Sample Name                    | PLOT 114 - 4 JARS | PLOT 117 - 1 JAR | PLOT 123 - 3 JARS | PLOT 402 - 6 JARS |
| ALS Sample ID                  | L2756078-7        | L2756078-8       | L2756078-9        | L2756078-10       |
| Sample Size                    | 2.97              | 1.33             | 2.82              | 2.86              |
| Sample size units              | g dwt             | g dwt            | g dwt             | g dwt             |
| Percent Moisture               | 71.5%             | 70.0%            | 72.1%             | 72.7%             |
| Sample Matrix                  | Tissue            | Tissue           | Tissue            | Tissue            |
| Sampling Date                  | 25-May-24         | 25-May-24        | 25-May-24         | 25-May-24         |
| Extraction Date                | 6-Jul-24          | 6-Jul-24         | 6-Jul-24          | 6-Jul-24          |
| Target Analytes                | pg/g dwt          | pg/g dwt         | pg/g dwt          | pg/g dwt          |
| PCB-001                        | <2.6              | <2.4             | <1.7              | <1.9              |
| PCB-002                        | <2.0              | <3.5             | <1.8              | <1.3              |
| PCB-003                        | <2.2              | <2.9             | <2.0              | <2.3              |
| PCB-004                        | <13               | <25              | <13               | <9.1              |
| PCB-010                        | <7.5              | <15              | <7.6              | <5.3              |
| PCB-009                        | <7.9              | <16              | <8.1              | <5.6              |
| PCB-007                        | <7.8              | <16              | <7.9              | <5.5              |
| PCB-006                        | <7.8              | <16              | <8.0              | <5.6              |
| PCB-005                        | <8.3              | <17              | <8.5              | <5.9              |
| PCB-008                        | <7.3              | <15              | <7.5              | <5.2              |
| PCB-014                        | <16               | <20              | <15               | <9.9              |
| PCB-011                        | <130              | 173              | 122               | 107               |
| PCB-012/013                    | <15               | <19              | <15               | <9.7              |
| PCB-015                        | <17               | <22              | <17               | <11               |
| PCB-019                        | <4.0              | <8.5             | <4.4              | <3.0              |
| PCB-018/030                    | 24.2              | <6.8             | <4.6              | <4.2              |
| PCB-017                        | <5.8              | <7.5             | <4.6              | <2.9              |
| PCB-027                        | <3.3              | <5.5             | <3.4              | <2.1              |
| PCB-024                        | <3.8              | <6.3             | <3.9              | <2.4              |
| PCB-016                        | 14.0              | <8.6             | <5.3              | <3.3              |
| PCB-032                        | 7.22              | <5.1             | <3.1              | <1.9              |
| PCB-034                        | <4.7              | <6.4             | <3.3              | <2.8              |
| PCB-023                        | <4.6              | <6.4             | <3.3              | <2.7              |
| PCB-026/029                    | <5.2              | <5.9             | <3.1              | <2.5              |
| PCB-025                        | <4.2              | <5.8             | <3.0              | <2.5              |
| PCB-031                        | <22               | <11              | <6.4              | 7.41              |
| PCB-020/028                    | <4.5              | 42.1             | 85.1              | 14.1              |
| PCB-021/033                    | 22.5              | <5.9             | 6.45              | <4.0              |
| PCB-022                        | <12               | <6.7             | <3.4              | <2.9              |
| PCB-036                        | <4.1              | <5.6             | <2.9              | <2.4              |
| PCB-039                        | <4.9              | <6.8             | <3.5              | <2.9              |
| PCB-038                        | <4.7              | <6.5             | <3.3              | <2.8              |
| PCB-035                        | <4.8              | <6.6             | <3.4              | <2.8              |
| PCB-037                        | <37               | <13              | <13               | <2.9              |
| PCB-054                        | <1.2              | <2.5             | <1.8              | <0.50             |
| PCB-050/053                    | <2.4              | <5.6             | <3.1              | <2.2              |
| PCB-045/051                    | 4.72              | <5.9             | <3.3              | 3.67              |
| PCB-046                        | <2.8              | <6.4             | <3.6              | <2.6              |
| PCB-052                        | 42.8              | <22              | 22.7              | <11               |
| PCB-073                        | <1.8              | <4.1             | <2.3              | <1.6              |
| PCB-043                        | <2.9              | <6.7             | <3.7              | <2.7              |
| PCB-049/069                    | <9.6              | 6.62             | 5.88              | 4.79              |
| PCB-048                        | 3.08              | <5.6             | <3.1              | <2.2              |
| PCB-044/047/065                | <33               | <24              | <24               | <14               |
| PCB-059/062/075                | <6.4              | <4.1             | <2.3              | <1.6              |
| PCB-042                        | <2.8              | <6.5             | <3.6              | <2.6              |
| PCB-040/041/071                | <7.4              | <5.7             | <3.2              | <2.3              |
| PCB-064                        | <13               | <5.2             | <3.1              | <1.6              |
| PCB-072                        | <3.6              | <4.4             | <3.5              | <1.5              |
| PCB-068                        | <3.6              | <4.4             | <3.5              | <1.5              |
| PCB-057                        | <3.8              | <4.6             | <3.7              | <1.6              |
| PCB-058                        | <3.7              | <4.4             | <3.5              | <1.5              |
| PCB-067                        | <3.1              | <3.8             | <3.0              | <1.3              |
| PCB-063                        | <14               | <4.4             | <4.0              | <1.5              |
| PCB-061/070/074/076            | 677               | 147              | 242               | <19               |
| PCB-066                        | <140              | 34.2             | 73.4              | <5.3              |
| PCB-055                        | <4.0              | <4.8             | <3.8              | <1.7              |
| PCB-056                        | <16               | <4.4             | <3.4              | <1.5              |
| PCB-060                        | 113               | 18.5             | <36               | <1.6              |
| PCB-080                        | <3.0              | <3.7             | <2.9              | <1.3              |
| PCB-079                        | <8.5              | <3.9             | <3.1              | <1.3              |
| PCB-078                        | <3.9              | <4.7             | <3.8              | <1.6              |
| PCB-081                        | 16.9              | <5.1             | <4.9              | <1.7              |
| PCB-077                        | 277               | 64.7             | 50.4              | <5.5              |
| PCB-104                        | <2.3              | <4.3             | <2.2              | <2.0              |
| PCB-096                        | <3.1              | <5.9             | <3.1              | <3.1              |
| PCB-103                        | <5.4              | <9.6             | <6.9              | <3.6              |
| PCB-094                        | <5.8              | <10              | <7.5              | <3.9              |
| PCB-095                        | 60.3              | <15              | 22.9              | <4.8              |
| PCB-093/098/100/102            | <5.1              | <9.1             | <6.5              | <3.4              |

| ALS Life Sciences              |                   |                  |                   |                   |
|--------------------------------|-------------------|------------------|-------------------|-------------------|
| Sample Analysis Summary Report |                   |                  |                   |                   |
| Sample Name                    | PLOT 114 - 4 JARS | PLOT 117 - 1 JAR | PLOT 123 - 3 JARS | PLOT 402 - 6 JARS |
| ALS Sample ID                  | L2756078-7        | L2756078-8       | L2756078-9        | L2756078-10       |
| Sample Size                    | 2.97              | 1.33             | 2.82              | 2.86              |
| Sample size units              | g dwt             | g dwt            | g dwt             | g dwt             |
| Percent Moisture               | 71.5%             | 70.0%            | 72.1%             | 72.7%             |
| Sample Matrix                  | Tissue            | Tissue           | Tissue            | Tissue            |
| Sampling Date                  | 25-May-24         | 25-May-24        | 25-May-24         | 25-May-24         |
| Extraction Date                | 6-Jul-24          | 6-Jul-24         | 6-Jul-24          | 6-Jul-24          |
| Target Analytes                | pg/g dwt          | pg/g dwt         | pg/g dwt          | pg/g dwt          |
| PCB-088/091                    | <10               | <9.8             | <7.1              | <3.7              |
| PCB-084                        | <11               | <10              | <7.3              | <3.9              |
| PCB-089                        | <6.8              | <12              | <8.8              | <4.6              |
| PCB-121                        | <3.8              | <6.9             | <4.9              | <2.6              |
| PCB-092                        | 58.3              | <11              | 13.2              | <4.2              |
| PCB-090/101/113                | 209               | 45.5             | 53.8              | <6.4              |
| PCB-083/099                    | 714               | 142              | 213               | 12.0              |
| PCB-112                        | <3.6              | <6.4             | <4.6              | <2.4              |
| PCB-086/087/097/109/119/125    | 93.6              | <25              | 26.9              | <4.9              |
| PCB-085/110/115/116/117        | 508               | 108              | 125               | <14               |
| PCB-082                        | <7.0              | <12              | <9.0              | <4.7              |
| PCB-111                        | <3.6              | <6.5             | <4.6              | <2.4              |
| PCB-120                        | <14               | <6.6             | <4.7              | <2.5              |
| PCB-108/124                    | <23               | <7.9             | 6.94              | <2.4              |
| PCB-107                        | 274               | 56.3             | 71.3              | <2.3              |
| PCB-123                        | 23.7              | <6.7             | <6.8              | <2.8              |
| PCB-106                        | <8.0              | <6.6             | <6.6              | <2.6              |
| PCB-118                        | 12000             | 2120             | 2780              | 138               |
| PCB-122                        | <9.6              | <7.8             | <7.8              | <3.1              |
| PCB-114                        | <170              | <23              | <34               | <2.8              |
| PCB-105                        | 1980              | 386              | 565               | <25               |
| PCB-127                        | 11.3              | <5.8             | <5.8              | <2.3              |
| PCB-126                        | 414               | 72.1             | 99.4              | <6.1              |
| PCB-155                        | <0.95             | <1.3             | <1.1              | <0.55             |
| PCB-152                        | <1.9              | <2.6             | <2.2              | <1.1              |
| PCB-150                        | <1.4              | <1.9             | <1.7              | <0.81             |
| PCB-136                        | <11               | <2.3             | <2.8              | <0.95             |
| PCB-145                        | <1.6              | <2.2             | <1.9              | <0.93             |
| PCB-148                        | <2.2              | <2.9             | <2.6              | <1.2              |
| PCB-135/151                    | 198               | <27              | 41.5              | <1.6              |
| PCB-154                        | <1.7              | <2.3             | <2.0              | <0.98             |
| PCB-144                        | 15.8              | <3.0             | <2.6              | <1.3              |
| PCB-147/149                    | 335               | <8.6             | <6.5              | <2.7              |
| PCB-134/143                    | <14               | <11              | <8.1              | <3.4              |
| PCB-139/140                    | 32.9              | <8.3             | <6.2              | <2.6              |
| PCB-131                        | <10               | <11              | <8.1              | <3.3              |
| PCB-142                        | <10               | <11              | <8.1              | <3.4              |
| PCB-132                        | 110               | 22.2             | <24               | <3.1              |
| PCB-133                        | <120              | 16.4             | 41.9              | <3.0              |
| PCB-165                        | <15               | <7.2             | <5.4              | <2.2              |
| PCB-146                        | 728               | 126              | 193               | 6.80              |
| PCB-161                        | <5.7              | <5.9             | <4.4              | <1.8              |
| PCB-153/168                    | 10800             | 1610             | 2160              | 131               |
| PCB-141                        | <200              | <32              | 52.9              | <3.2              |
| PCB-130                        | 422               | 86.5             | 103               | 5.43              |
| PCB-137/164                    | 149               | 38.2             | 38.5              | <3.0              |
| PCB-129/138/163                | 9860              | 1610             | 1810              | 118               |
| PCB-160                        | <6.4              | <6.6             | <4.9              | <2.0              |
| PCB-158                        | 592               | 75.5             | 116               | <4.3              |
| PCB-128/166                    | 972               | 150              | 173               | 11.2              |
| PCB-159                        | <16               | <5.8             | <4.3              | <1.8              |
| PCB-162                        | 99.8              | 26.2             | <17               | <1.9              |
| PCB-167                        | 1710              | 297              | 315               | 19.3              |
| PCB-156/157                    | 3410              | 636              | 643               | 36.6              |
| PCB-169                        | 39.3              | <6.6             | 34.5              | <4.2              |
| PCB-188                        | <4.5              | <4.0             | <2.3              | <1.6              |
| PCB-179                        | 45.6              | <4.9             | <5.1              | <2.1              |
| PCB-184                        | <5.1              | <4.5             | <2.7              | <1.9              |
| PCB-176                        | <11               | <4.7             | <2.8              | <2.0              |
| PCB-186                        | <5.7              | <5.1             | <3.1              | <2.2              |
| PCB-178                        | 1610              | 272              | 285               | <19               |
| PCB-175                        | 43.4              | <9.3             | <10               | <2.8              |
| PCB-187                        | 8210              | 1140             | 1380              | 94.0              |
| PCB-182                        | <6.6              | <5.8             | <3.5              | <2.5              |
| PCB-183                        | 1600              | <270             | 430               | 15.5              |
| PCB-185                        | 57.9              | <6.9             | 11.8              | <3.0              |
| PCB-174                        | 211               | 30.5             | <28               | <3.3              |
| PCB-177                        | 4260              | 668              | 663               | 44.0              |
| PCB-181                        | <22               | <6.6             | <4.0              | <2.8              |
| PCB-171/173                    | 458               | <76              | <83               | <25               |
| PCB-172                        | 1820              | 359              | 399               | <12               |

| ALS Life Sciences              |                   |                  |                   |                   |
|--------------------------------|-------------------|------------------|-------------------|-------------------|
| Sample Analysis Summary Report |                   |                  |                   |                   |
| Sample Name                    | PLOT 114 - 4 JARS | PLOT 117 - 1 JAR | PLOT 123 - 3 JARS | PLOT 402 - 6 JARS |
| ALS Sample ID                  | L2756078-7        | L2756078-8       | L2756078-9        | L2756078-10       |
| Sample Size                    | 2.97              | 1.33             | 2.82              | 2.86              |
| Sample size units              | g dwt             | g dwt            | g dwt             | g dwt             |
| Percent Moisture               | 71.5%             | 70.0%            | 72.1%             | 72.7%             |
| Sample Matrix                  | Tissue            | Tissue           | Tissue            | Tissue            |
| Sampling Date                  | 25-May-24         | 25-May-24        | 25-May-24         | 25-May-24         |
| Extraction Date                | 6-Jul-24          | 6-Jul-24         | 6-Jul-24          | 6-Jul-24          |
| Target Analytes                | pg/g dwt          | pg/g dwt         | pg/g dwt          | pg/g dwt          |
| PCB-192                        | <6.3              | <5.2             | <3.2              | <2.2              |
| PCB-180/193                    | 25500             | 3720             | 4310              | 255               |
| PCB-191                        | 98.3              | <16              | <18               | <1.9              |
| PCB-170                        | 3820              | 508              | 677               | 32.0              |
| PCB-190                        | 3270              | 574              | 502               | <40               |
| PCB-189                        | 946               | 171              | 166               | <11               |
| PCB-202                        | 685               | <120             | 119               | 13.3              |
| PCB-201                        | 89.2              | <16              | 15.7              | <1.7              |
| PCB-204                        | <1.7              | <1.6             | <1.2              | <0.97             |
| PCB-197                        | 59.0              | 14.3             | <14               | <1.1              |
| PCB-200                        | 12.3              | <1.7             | <1.3              | <1.0              |
| PCB-198/199                    | 12200             | 1990             | 1570              | 186               |
| PCB-196                        | 754               | <78              | 146               | <3.8              |
| PCB-203                        | 5490              | 828              | 807               | <76               |
| PCB-195                        | 2680              | 388              | <280              | <36               |
| PCB-194                        | 13800             | 2380             | 1910              | 168               |
| PCB-205                        | 776               | 150              | 117               | <12               |
| PCB-208                        | 320               | 62.6             | <48               | <32               |
| PCB-207                        | <110              | <11              | 30.9              | <2.6              |
| PCB-206                        | 2960              | 511              | 437               | 77.9              |
| PCB-209                        | 289               | 69.4             | 126               | 26.8              |
| Extraction Standards           | % Rec             | % Rec            | % Rec             | % Rec             |
| 13C12-PCB-001                  | 28                | 40               | 36                | 52                |
| 13C12-PCB-003                  | 29                | 39               | 40                | 55                |
| 13C12-PCB-004                  | 41                | 51               | 48                | 69                |
| 13C12-PCB-015                  | 43                | 50               | 46                | 66                |
| 13C12-PCB-019                  | 45                | 53               | 50                | 69                |
| 13C12-PCB-037                  | 51                | 63               | 55                | 64                |
| 13C12-PCB-054                  | 49                | 56               | 53                | 66                |
| 13C12-PCB-081                  | 63                | 74               | 62                | 84                |
| 13C12-PCB-077                  | 65                | 73               | 60                | 83                |
| 13C12-PCB-104                  | 57                | 71               | 59                | 86                |
| 13C12-PCB-123                  | 67                | 81               | 64                | 86                |
| 13C12-PCB-118                  | 77                | 94               | 78                | 98                |
| 13C12-PCB-114                  | 65                | 79               | 63                | 86                |
| 13C12-PCB-105                  | 71                | 83               | 68                | 91                |
| 13C12-PCB-126                  | 72                | 96               | 67                | 88                |
| 13C12-PCB-155                  | 72                | 78               | 66                | 86                |
| 13C12-PCB-167                  | 68                | 77               | 64                | 87                |
| 13C12-PCB-156/157              | 65                | 76               | 62                | 81                |
| 13C12-PCB-169                  | 83                | 115              | 62                | 84                |
| 13C12-PCB-188                  | 65                | 76               | 61                | 82                |
| 13C12-PCB-189                  | 65                | 77               | 58                | 78                |
| 13C12-PCB-202                  | 70                | 80               | 66                | 87                |
| 13C12-PCB-205                  | 70                | 84               | 67                | 91                |
| 13C12-PCB-208                  | 67                | 80               | 75                | 79                |
| 13C12-PCB-206                  | 70                | 85               | 71                | 103               |
| 13C12-PCB-209                  | 79                | 93               | 78                | 103               |
| Cleanup Standards              |                   |                  |                   |                   |
| 13C12-PCB-028                  | 56                | 54               | 55                | 54                |
| 13C12-PCB-111                  | 72                | 72               | 70                | 71                |
| 13C12-PCB-178                  | 71                | 73               | 65                | 70                |



| ALS Life Sciences              |                   |                  |                   |                   |
|--------------------------------|-------------------|------------------|-------------------|-------------------|
| Sample Analysis Summary Report |                   |                  |                   |                   |
| Sample Name                    | PLOT 114 - 4 JARS | PLOT 117 - 1 JAR | PLOT 123 - 3 JARS | PLOT 402 - 6 JARS |
| ALS Sample ID                  | L2756078-7        | L2756078-8       | L2756078-9        | L2756078-10       |
| Sample Size                    | 2.97              | 1.33             | 2.82              | 2.86              |
| Sample size units              | g dwt             | g dwt            | g dwt             | g dwt             |
| Percent Moisture               | 71.5%             | 70.0%            | 72.1%             | 72.7%             |
| Sample Matrix                  | Tissue            | Tissue           | Tissue            | Tissue            |
| Sampling Date                  | 25-May-24         | 25-May-24        | 25-May-24         | 25-May-24         |
| Extraction Date                | 6-Jul-24          | 6-Jul-24         | 6-Jul-24          | 6-Jul-24          |
| Target Analytes                | pg/g dwt          | pg/g dwt         | pg/g dwt          | pg/g dwt          |
| Homologue Group Totals         | pg/g dwt          | pg/g dwt         | pg/g dwt          | pg/g dwt          |
| Total MonoCB                   | 2.60              | 3.50             | <1.7              | 5.50              |
| Total DiCB                     | 130               | 173              | 122               | 107               |
| Total TriCB                    | 150               | 72.9             | 116               | 29.7              |
| Total TetraCB                  | 1380              | 332              | 466               | 63.3              |
| Total PentaCB                  | 16600             | 3000             | 4010              | 214               |
| Total HexaCB                   | 29800             | 4760             | 5770              | 345               |
| Total HeptaCB                  | 52000             | 7810             | 8970              | 526               |
| Total OctaCB                   | 36500             | 5960             | 4980              | 497               |
| Total NonaCB                   | 3390              | 585              | 516               | 77.9              |
| DecaCB                         | 289               | 69.4             | 126               | 26.8              |
| Total PCB                      | 140000            | 22800            | 25100             | 1890              |
| Best Aroclor Match             | 1262              | 1262             | 1262              | 1262              |
| Toxic Equivalency - (WHO 2005) |                   |                  |                   |                   |
| Lower Bound PCB TEQ            | 43.2              | 7.32             | 11.1              | 0.00582           |
| Mid Point PCB TEQ              | 43.2              | 7.53             | 11.1              | 0.744             |
| Upper Bound PCB TEQ            | 43.2              | 7.53             | 11.1              | 0.744             |

| ALS Life Sciences              |              |              |
|--------------------------------|--------------|--------------|
| Quality Control Summary Report |              |              |
| Sample Name                    | Method Blank | Method Blank |
| ALS Sample ID                  | WG3789754-1  | WG3789754-4  |
| Sample Size                    | 3            | 3            |
| Sample size units              | g            | g            |
| Percent Moisture               | n/a          | n/a          |
| Sample Matrix                  | 1g corn oil  | QC           |
| Sampling Date                  | n/a          | n/a          |
| Extraction Date                | 6-Jul-24     | 6-Jul-24     |
| Target Analytes                | pg/g         | pg/g         |
| PCB-001                        | <1.7         | <4.1         |
| PCB-002                        | <1.9         | <4.5         |
| PCB-003                        | <2.1         | <4.9         |
| PCB-004                        | <19          | <34          |
| PCB-010                        | <8.9         | <20          |
| PCB-009                        | <9.5         | <22          |
| PCB-007                        | <9.6         | <22          |
| PCB-006                        | <9.4         | <21          |
| PCB-005                        | <11          | <25          |
| PCB-008                        | <8.2         | <19          |
| PCB-014                        | <14          | <33          |
| PCB-011                        | <27          | <33          |
| PCB-012/013                    | <14          | <32          |
| PCB-015                        | <13          | <39          |
| PCB-019                        | <5.1         | <14          |
| PCB-018/030                    | <4.2         | <5.2         |
| PCB-017                        | <4.8         | <6.0         |
| PCB-027                        | <3.7         | <4.6         |
| PCB-024                        | <4.1         | <5.1         |
| PCB-016                        | <5.4         | <6.7         |
| PCB-032                        | <3.3         | <4.1         |
| PCB-034                        | <4.6         | <6.9         |
| PCB-023                        | <4.4         | <6.5         |
| PCB-026/029                    | <4.3         | <6.3         |
| PCB-025                        | <4.2         | <6.2         |
| PCB-031                        | <4.1         | <6.0         |
| PCB-020/028                    | <4.4         | <6.5         |
| PCB-021/033                    | <4.3         | <6.4         |
| PCB-022                        | <4.9         | <7.2         |
| PCB-036                        | <4.1         | <6.0         |
| PCB-039                        | <5.0         | <7.3         |
| PCB-038                        | <4.7         | <6.9         |
| PCB-035                        | <4.9         | <7.2         |
| PCB-037                        | <4.9         | <5.6         |
| PCB-054                        | <1.2         | <2.5         |
| PCB-050/053                    | <2.7         | <3.8         |
| PCB-045/051                    | <2.8         | <4.0         |
| PCB-046                        | <3.1         | <4.3         |
| PCB-052                        | <3.1         | 6.21         |
| PCB-073                        | <2.0         | <2.7         |
| PCB-043                        | <3.1         | <4.3         |
| PCB-049/069                    | <2.4         | <3.3         |
| PCB-048                        | <2.8         | <3.9         |
| PCB-044/047/065                | <6.1         | 6.25         |
| PCB-059/062/075                | <2.0         | <2.8         |
| PCB-042                        | <3.1         | <4.4         |
| PCB-040/041/071                | <2.8         | <4.0         |
| PCB-064                        | <2.1         | <2.9         |
| PCB-072                        | <2.0         | <2.4         |
| PCB-068                        | <1.9         | <2.3         |
| PCB-057                        | <2.1         | <2.5         |
| PCB-058                        | <2.0         | <2.4         |
| PCB-067                        | <1.7         | <2.1         |
| PCB-063                        | <1.9         | <2.3         |
| PCB-061/070/074/076            | <2.6         | <2.3         |
| PCB-066                        | <1.9         | <2.3         |
| PCB-055                        | <2.1         | <2.6         |
| PCB-056                        | <1.9         | <2.3         |
| PCB-060                        | <2.0         | <2.5         |
| PCB-080                        | <1.7         | <2.0         |
| PCB-079                        | <1.8         | <2.1         |
| PCB-078                        | <2.2         | <2.7         |
| PCB-081                        | <2.2         | <2.3         |
| PCB-077                        | <2.5         | <2.6         |
| PCB-104                        | <3.1         | <4.2         |
| PCB-096                        | <4.1         | <4.3         |
| PCB-103                        | <5.1         | <5.2         |
| PCB-094                        | <5.5         | <5.7         |
| PCB-095                        | <6.4         | <6.6         |
| PCB-093/098/100/102            | <4.8         | <4.9         |

| ALS Life Sciences              |              |              |
|--------------------------------|--------------|--------------|
| Quality Control Summary Report |              |              |
| Sample Name                    | Method Blank | Method Blank |
| ALS Sample ID                  | WG3789754-1  | WG3789754-4  |
| Sample Size                    | 3            | 3            |
| Sample size units              | g            | g            |
| Percent Moisture               | n/a          | n/a          |
| Sample Matrix                  | 1g corn oil  | QC           |
| Sampling Date                  | n/a          | n/a          |
| Extraction Date                | 6-Jul-24     | 6-Jul-24     |
| Target Analytes                | pg/g         | pg/g         |
| PCB-088/091                    | <5.2         | <5.3         |
| PCB-084                        | <5.4         | <5.6         |
| PCB-089                        | <6.5         | <6.7         |
| PCB-121                        | <3.7         | <3.8         |
| PCB-092                        | <5.8         | <6.0         |
| PCB-090/101/113                | <4.2         | <4.3         |
| PCB-083/099                    | <5.5         | <5.7         |
| PCB-112                        | <3.5         | <3.6         |
| PCB-086/087/097/109/119/125    | <4.1         | <4.2         |
| PCB-085/110/115/116/117        | <3.9         | <4.0         |
| PCB-082                        | <6.7         | <6.9         |
| PCB-111                        | <3.6         | <3.7         |
| PCB-120                        | <3.5         | <3.6         |
| PCB-108/124                    | <3.9         | <4.1         |
| PCB-107                        | <3.7         | <3.9         |
| PCB-123                        | <4.2         | <4.2         |
| PCB-106                        | <4.3         | <4.4         |
| PCB-118                        | <4.0         | <3.8         |
| PCB-122                        | <5.2         | <5.4         |
| PCB-114                        | <4.4         | <3.9         |
| PCB-105                        | <4.1         | <3.8         |
| PCB-127                        | <4.1         | <4.3         |
| PCB-126                        | <4.9         | <4.6         |
| PCB-155                        | <1.2         | <1.5         |
| PCB-152                        | <2.4         | <2.4         |
| PCB-150                        | <1.9         | <1.8         |
| PCB-136                        | <2.2         | <2.2         |
| PCB-145                        | <2.1         | <2.1         |
| PCB-148                        | <2.9         | <2.8         |
| PCB-135/151                    | <3.4         | <3.3         |
| PCB-154                        | <1.9         | <1.8         |
| PCB-144                        | <3.0         | <2.9         |
| PCB-147/149                    | <2.8         | <2.2         |
| PCB-134/143                    | <3.6         | <2.8         |
| PCB-139/140                    | <2.8         | <2.2         |
| PCB-131                        | <3.6         | <2.8         |
| PCB-142                        | <3.6         | <2.8         |
| PCB-132                        | <3.4         | <2.6         |
| PCB-133                        | <3.2         | <2.5         |
| PCB-165                        | <2.3         | <1.8         |
| PCB-146                        | <2.7         | <2.1         |
| PCB-161                        | <2.0         | <1.6         |
| PCB-153/168                    | <2.2         | 1.87         |
| PCB-141                        | <2.8         | <2.2         |
| PCB-130                        | <3.4         | <2.7         |
| PCB-137/164                    | <2.5         | <2.0         |
| PCB-129/138/163                | <2.8         | <2.2         |
| PCB-160                        | <2.3         | <1.8         |
| PCB-158                        | <1.8         | <1.4         |
| PCB-128/166                    | <2.4         | <1.9         |
| PCB-159                        | <2.1         | <1.6         |
| PCB-162                        | <2.2         | <1.7         |
| PCB-167                        | <1.9         | <1.5         |
| PCB-156/157                    | <3.0         | <2.1         |
| PCB-169                        | <2.3         | <1.6         |
| PCB-188                        | <0.89        | <1.0         |
| PCB-179                        | <1.1         | <1.2         |
| PCB-184                        | <1.0         | <1.1         |
| PCB-176                        | <1.1         | <1.2         |
| PCB-186                        | <1.2         | <1.3         |
| PCB-178                        | <1.5         | <1.8         |
| PCB-175                        | <1.5         | <1.7         |
| PCB-187                        | 1.46         | <1.6         |
| PCB-182                        | <1.3         | <1.5         |
| PCB-183                        | <1.4         | <1.5         |
| PCB-185                        | <1.6         | <1.8         |
| PCB-174                        | <1.4         | <1.6         |
| PCB-177                        | <1.5         | <1.7         |
| PCB-181                        | <1.6         | <1.8         |
| PCB-171/173                    | <1.5         | <1.8         |
| PCB-172                        | <1.5         | <1.7         |



| ALS Life Sciences              |              |              |
|--------------------------------|--------------|--------------|
| Quality Control Summary Report |              |              |
| Sample Name                    | Method Blank | Method Blank |
| ALS Sample ID                  | WG3789754-1  | WG3789754-4  |
| Sample Size                    | 3            | 3            |
| Sample size units              | g            | g            |
| Percent Moisture               | n/a          | n/a          |
| Sample Matrix                  | 1g corn oil  | QC           |
| Sampling Date                  | n/a          | n/a          |
| Extraction Date                | 6-Jul-24     | 6-Jul-24     |
| Target Analytes                | pg/g         | pg/g         |
| PCB-192                        | <1.3         | <1.4         |
| PCB-180/193                    | <1.3         | <1.4         |
| PCB-191                        | <1.1         | <1.2         |
| PCB-170                        | <1.5         | <1.8         |
| PCB-190                        | <0.96        | <1.1         |
| PCB-189                        | <1.2         | <1.1         |
| PCB-202                        | <0.91        | <0.97        |
| PCB-201                        | <0.97        | <1.1         |
| PCB-204                        | <0.96        | <1.0         |
| PCB-197                        | <1.1         | <1.2         |
| PCB-200                        | <1.1         | <1.2         |
| PCB-198/199                    | <1.4         | <1.6         |
| PCB-196                        | <1.4         | <1.6         |
| PCB-203                        | <1.3         | <1.5         |
| PCB-195                        | <1.6         | <1.4         |
| PCB-194                        | <1.5         | 2.32         |
| PCB-205                        | <1.4         | <1.3         |
| PCB-208                        | <2.0         | <2.1         |
| PCB-207                        | <2.1         | <2.2         |
| PCB-206                        | <3.6         | <3.8         |
| PCB-209                        | <0.91        | <0.71        |
| Extraction Standards           | % Rec        | % Rec        |
| 13C12-PCB-001                  | 39           | 16           |
| 13C12-PCB-003                  | 38           | 20           |
| 13C12-PCB-004                  | 42           | 21           |
| 13C12-PCB-015                  | 53           | 24           |
| 13C12-PCB-019                  | 52           | 21           |
| 13C12-PCB-037                  | 56           | 36           |
| 13C12-PCB-054                  | 55           | 25           |
| 13C12-PCB-081                  | 65           | 55           |
| 13C12-PCB-077                  | 64           | 55           |
| 13C12-PCB-104                  | 60           | 38           |
| 13C12-PCB-123                  | 70           | 62           |
| 13C12-PCB-118                  | 71           | 66           |
| 13C12-PCB-114                  | 66           | 63           |
| 13C12-PCB-105                  | 71           | 68           |
| 13C12-PCB-126                  | 66           | 65           |
| 13C12-PCB-155                  | 70           | 52           |
| 13C12-PCB-167                  | 70           | 66           |
| 13C12-PCB-156/157              | 67           | 67           |
| 13C12-PCB-169                  | 64           | 68           |
| 13C12-PCB-188                  | 67           | 62           |
| 13C12-PCB-189                  | 69           | 66           |
| 13C12-PCB-202                  | 70           | 70           |
| 13C12-PCB-205                  | 76           | 72           |
| 13C12-PCB-208                  | 78           | 76           |
| 13C12-PCB-206                  | 77           | 75           |
| 13C12-PCB-209                  | 79           | 81           |
| Cleanup Standards              |              |              |
| 13C12-PCB-028                  | 67           | 33           |
| 13C12-PCB-111                  | 75           | 52           |
| 13C12-PCB-178                  | 77           | 53           |

| ALS Life Sciences              |              |              |
|--------------------------------|--------------|--------------|
| Quality Control Summary Report |              |              |
| Sample Name                    | Method Blank | Method Blank |
| ALS Sample ID                  | WG3789754-1  | WG3789754-4  |
| Sample Size                    | 3            | 3            |
| Sample size units              | g            | g            |
| Percent Moisture               | n/a          | n/a          |
| Sample Matrix                  | 1g corn oil  | QC           |
| Sampling Date                  | n/a          | n/a          |
| Extraction Date                | 6-Jul-24     | 6-Jul-24     |
| Target Analytes                | pg/g         | pg/g         |
| Homologue Group Totals         |              |              |
| Total MonoCB                   | <1.7         | <4.1         |
| Total DiCB                     | 27.0         | <19          |
| Total TriCB                    | <3.3         | <4.1         |
| Total TetraCB                  | 8.70         | 12.5         |
| Total PentaCB                  | <3.1         | <3.6         |
| Total HexaCB                   | <1.2         | 1.87         |
| Total HeptaCB                  | 1.46         | <1.0         |
| Total OctaCB                   | <0.91        | 2.32         |
| Total NonaCB                   | <2.0         | <2.1         |
| DecaCB                         | <0.91        | <0.71        |
| Total PCB                      | 37.2         | 16.7         |
| Toxic Equivalency - (WHO 2005) |              |              |
| Lower Bound PCB TEQ            | 0.00         | 0.00         |
| Mid Point PCB TEQ              | 0.280        | 0.255        |
| Upper Bound PCB TEQ            | 0.561        | 0.510        |

| ALS Life Sciences              |                           |  |
|--------------------------------|---------------------------|--|
| Sample Analysis Summary Report |                           |  |
| Sample Name                    | Laboratory Control Sample |  |
| ALS Sample ID                  | WG3789754-2               |  |
| Sample Size                    | 1                         |  |
| Sample size units              | n/a                       |  |
| Percent Moisture               | n/a                       |  |
| Sample Matrix                  | QC                        |  |
| Sampling Date                  | n/a                       |  |
| Extraction Date                | 6-Jul-24                  |  |
| Target Analytes                | % Rec                     |  |
| PCB-001                        | 108                       |  |
| PCB-003                        | 98                        |  |
| PCB-004                        | 105                       |  |
| PCB-015                        | 106                       |  |
| PCB-019                        | 107                       |  |
| PCB-037                        | 114                       |  |
| PCB-054                        | 100                       |  |
| PCB-081                        | 105                       |  |
| PCB-077                        | 104                       |  |
| PCB-104                        | 97                        |  |
| PCB-123                        | 101                       |  |
| PCB-118                        | 99                        |  |
| PCB-114                        | 106                       |  |
| PCB-105                        | 91                        |  |
| PCB-126                        | 98                        |  |
| PCB-155                        | 89                        |  |
| PCB-167                        | 89                        |  |
| PCB-156/157                    | 90                        |  |
| PCB-169                        | 90                        |  |
| PCB-188                        | 85                        |  |
| PCB-189                        | 94                        |  |
| PCB-202                        | 96                        |  |
| PCB-205                        | 91                        |  |
| PCB-208                        | 98                        |  |
| PCB-206                        | 92                        |  |
| PCB-209                        | 113                       |  |
| Extraction Standards           | % Rec                     |  |
| 13C12-PCB-001                  | 38                        |  |
| 13C12-PCB-003                  | 34                        |  |
| 13C12-PCB-004                  | 41                        |  |
| 13C12-PCB-015                  | 45                        |  |
| 13C12-PCB-019                  | 43                        |  |
| 13C12-PCB-037                  | 48                        |  |
| 13C12-PCB-054                  | 48                        |  |
| 13C12-PCB-081                  | 54                        |  |
| 13C12-PCB-077                  | 54                        |  |
| 13C12-PCB-104                  | 51                        |  |
| 13C12-PCB-123                  | 58                        |  |
| 13C12-PCB-118                  | 61                        |  |
| 13C12-PCB-114                  | 56                        |  |
| 13C12-PCB-105                  | 63                        |  |
| 13C12-PCB-126                  | 57                        |  |
| 13C12-PCB-155                  | 56                        |  |
| 13C12-PCB-167                  | 60                        |  |
| 13C12-PCB-156/157              | 59                        |  |
| 13C12-PCB-169                  | 63                        |  |
| 13C12-PCB-188                  | 55                        |  |
| 13C12-PCB-189                  | 68                        |  |
| 13C12-PCB-202                  | 60                        |  |
| 13C12-PCB-205                  | 63                        |  |
| 13C12-PCB-208                  | 66                        |  |
| 13C12-PCB-206                  | 68                        |  |
| 13C12-PCB-209                  | 70                        |  |
| Cleanup Standards              |                           |  |
| 13C12-PCB-028                  | 70                        |  |
| 13C12-PCB-111                  | 79                        |  |
| 13C12-PCB-178                  | 79                        |  |

| ALS Life Sciences      |  |                           |              |                   |                 |       |                  |                           |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
|------------------------|--|---------------------------|--------------|-------------------|-----------------|-------|------------------|---------------------------|--------------|-------------------|-----------------|-----------------------------------------------------------|------------------|---------------------------|--------------|-------------------|-----------------|-------|------------------|-----|
| Sample Analysis Report |  |                           |              |                   |                 |       |                  |                           |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| Sample Name            |  | PLOT 4 - 6 JARS           |              |                   |                 |       |                  | Sampling Date             |              | 25-May-24         |                 | Approved:<br>S.Sarhaddi<br>--e-signature--<br>14-Aug-2024 |                  |                           |              |                   |                 |       |                  |     |
| ALS Sample ID          |  | L2756078-1                |              |                   |                 |       |                  | Extraction Date           |              | 6-Jul-24          |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| Analysis Method        |  | EPA 1668C                 |              |                   |                 |       |                  | Sample Size               |              | 2.87              |                 |                                                           |                  |                           |              |                   |                 |       | g dwt            |     |
| Analysis Type          |  | Sample                    |              |                   |                 |       |                  | Percent Moisture          |              | 72.0%             |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| Sample Matrix          |  | Tissue                    |              |                   |                 |       |                  | Split Ratio               |              | 4                 |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| Run Information        |  | Run 1                     |              |                   |                 |       |                  | Run 2                     |              |                   |                 |                                                           |                  | Run 3                     |              |                   |                 |       |                  |     |
| Filename               |  | 6-240714A11               |              |                   |                 |       |                  | 6-240718A23               |              |                   |                 |                                                           |                  | 6-240812C25               |              |                   |                 |       |                  |     |
| Run Date               |  | 14-Jul-24 14:53           |              |                   |                 |       |                  | 19-Jul-24 05:30           |              |                   |                 |                                                           |                  | 13-Aug-24 12:08           |              |                   |                 |       |                  |     |
| Final Volume           |  | 25 ul                     |              |                   |                 |       |                  | 25 uL                     |              |                   |                 |                                                           |                  | 10 uL                     |              |                   |                 |       |                  |     |
| Dilution Factor        |  | 1                         |              |                   |                 |       |                  | 10                        |              |                   |                 |                                                           |                  | 1                         |              |                   |                 |       |                  |     |
| Analysis Units         |  | pg/g dwt                  |              |                   |                 |       |                  | pg/g dwt                  |              |                   |                 |                                                           |                  | pg/g dwt                  |              |                   |                 |       |                  |     |
| Instrument - Column    |  | HRMS-6 SPBOCTYL-281311-07 |              |                   |                 |       |                  | HRMS-6 SPBOCTYL-283388-03 |              |                   |                 |                                                           |                  | HRMS-6 SPBOCTYL-283388-03 |              |                   |                 |       |                  |     |
| Target Analytes        |  | TEF<br>(WHO 2005)         | Ret.<br>Time | Conc.<br>pg/g dwt | EDL<br>pg/g dwt | Flags | EMPC<br>pg/g dwt | LQL                       | Ret.<br>Time | Conc.<br>pg/g dwt | EDL<br>pg/g dwt | Flags                                                     | EMPC<br>pg/g dwt | LQL                       | Ret.<br>Time | Conc.<br>pg/g dwt | EDL<br>pg/g dwt | Flags | EMPC<br>pg/g dwt | LQL |
| PCB-001                |  |                           | 9.40         | 3.23              | 1.9             | M,J   |                  | 35                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-002                |  |                           | 10.83        | <2.0              | 2.0             | M,U   | 0.99             | 35                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-003                |  |                           | NotFnd       | <2.2              | 2.2             | U     |                  | 35                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-004                |  |                           | NotFnd       | <14               | 14              | U     |                  | 35                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-010                |  |                           | NotFnd       | <8.5              | 8.5             | U     |                  | 35                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-009                |  |                           | NotFnd       | <9.0              | 9.0             | U     |                  | 35                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-007                |  |                           | NotFnd       | <9.1              | 9.1             | U     |                  | 35                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-006                |  |                           | NotFnd       | <9.0              | 9.0             | U     |                  | 35                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-005                |  |                           | NotFnd       | <10               | 10              | U     |                  | 35                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-008                |  |                           | NotFnd       | <7.8              | 7.8             | U     |                  | 35                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-014                |  |                           | NotFnd       | <12               | 12              | U     |                  | 35                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-011                |  |                           | 14.49        | 95.7              | 12              |       |                  | 35                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-012/013            |  |                           | NotFnd       | <12               | 12              | U     |                  | 35                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-015                |  |                           | NotFnd       | <13               | 13              | U     |                  | 35                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-019                |  |                           | NotFnd       | <4.4              | 4.4             | U     |                  | 35                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-018/030            |  |                           | 14.29        | <6.5              | 4.1             | J,R   | 6.5              | 35                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-017                |  |                           | 14.55        | <4.7              | 4.7             | M,U   | 2.2              | 35                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-027                |  |                           | NotFnd       | <3.6              | 3.6             | U     |                  | 35                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-024                |  |                           | NotFnd       | <4.0              | 4.0             | U     |                  | 35                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-016                |  |                           | NotFnd       | <5.3              | 5.3             | U     |                  | 35                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-032                |  |                           | 15.13        | <3.3              | 3.3             | M,U   | 1.9              | 35                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-034                |  |                           | NotFnd       | <6.2              | 6.2             | U     |                  | 35                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-023                |  |                           | NotFnd       | <5.9              | 5.9             | U     |                  | 35                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-026/029            |  |                           | 16.09        | <6.0              | 5.7             | J,R   | 6.0              | 35                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-025                |  |                           | NotFnd       | <5.6              | 5.6             | U     |                  | 35                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-031                |  |                           | 16.42        | 31.5              | 5.5             | J     |                  | 35                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-020/028            |  |                           | 16.58        | 478               | 5.9             |       |                  | 35                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-021/033            |  |                           | 16.74        | 21.2              | 5.8             | J     |                  | 35                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-022                |  |                           | 16.97        | <11               | 6.5             | J,R   | 11               | 35                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-036                |  |                           | NotFnd       | <5.4              | 5.4             | U     |                  | 35                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-039                |  |                           | NotFnd       | <6.6              | 6.6             | U     |                  | 35                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-038                |  |                           | NotFnd       | <6.3              | 6.3             | U     |                  | 35                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-035                |  |                           | NotFnd       | <6.5              | 6.5             | U     |                  | 35                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-037                |  |                           | 18.85        | 91.7              | 6.7             |       |                  | 35                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-054                |  |                           | NotFnd       | <1.6              | 1.6             | U     |                  | 35                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-050/053            |  |                           | NotFnd       | <3.4              | 3.4             | U     |                  | 35                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-045/051            |  |                           | 16.65        | <3.6              | 3.6             | U     | 3.1              | 35                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-046                |  |                           | NotFnd       | <3.9              | 3.9             | U     |                  | 35                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-052                |  |                           | 17.57        | 88.9              | 3.9             |       |                  | 35                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-073                |  |                           | NotFnd       | <2.4              | 2.4             | U     |                  | 35                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-043                |  |                           | NotFnd       | <3.8              | 3.8             | U     |                  | 35                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-049/069            |  |                           | 17.85        | <22               | 3.0             | J,R   | 22               | 35                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-048                |  |                           | 18.00        | 5.07              | 3.5             | J     |                  | 35                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-044/047/065        |  |                           | 18.15        | 78.6              | 3.0             |       |                  | 35                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-059/062/075        |  |                           | 18.33        | <12               | 2.5             | J,R   | 12               | 35                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-042                |  |                           | 18.45        | 7.65              | 3.9             | J     |                  | 35                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-040/041/071        |  |                           | 18.72        | 11.6              | 3.5             | J     |                  | 35                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-064                |  |                           | 18.84        | <29               | 2.6             | J,R   | 29               | 35                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-072                |  |                           | NotFnd       | <5.7              | 5.7             | U     |                  | 35                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-068                |  |                           | NotFnd       | <5.4              | 5.4             | U     |                  | 35                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-057                |  |                           | NotFnd       | <5.9              | 5.9             | U     |                  | 35                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-058                |  |                           | NotFnd       | <5.7              | 5.7             | U     |                  | 35                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-067                |  |                           | NotFnd       | <5.0              | 5.0             | U     |                  | 35                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |



| ALS Life Sciences           |  |                           |              |                   |                 |       |                  |                           |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
|-----------------------------|--|---------------------------|--------------|-------------------|-----------------|-------|------------------|---------------------------|--------------|-------------------|-----------------|-------------------------------------------------------------------------|------------------|---------------------------|--------------|-------------------|-----------------|------------------|-----|
| Sample Analysis Report      |  |                           |              |                   |                 |       |                  |                           |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| Sample Name                 |  | PLOT 4 - 6 JARS           |              |                   |                 |       |                  | Sampling Date             |              | 25-May-24         |                 | <div>Approved:<br/>S.Sarhaddi<br/>--e-signature--<br/>14-Aug-2024</div> |                  |                           |              |                   |                 |                  |     |
| ALS Sample ID               |  | L2756078-1                |              |                   |                 |       |                  | Extraction Date           |              | 6-Jul-24          |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| Analysis Method             |  | EPA 1668C                 |              |                   |                 |       |                  | Sample Size               |              | 2.87 g dwt        |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| Analysis Type               |  | Sample                    |              |                   |                 |       |                  | Percent Moisture          |              | 72.0%             |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| Sample Matrix               |  | Tissue                    |              |                   |                 |       |                  | Split Ratio               |              | 4                 |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| Run Information             |  | Run 1                     |              |                   |                 |       |                  | Run 2                     |              |                   |                 |                                                                         |                  | Run 3                     |              |                   |                 |                  |     |
| Filename                    |  | 6-240714A11               |              |                   |                 |       |                  | 6-240718A23               |              |                   |                 |                                                                         |                  | 6-240812C25               |              |                   |                 |                  |     |
| Run Date                    |  | 14-Jul-24 14:53           |              |                   |                 |       |                  | 19-Jul-24 05:30           |              |                   |                 |                                                                         |                  | 13-Aug-24 12:08           |              |                   |                 |                  |     |
| Final Volume                |  | 25 ul                     |              |                   |                 |       |                  | 25 uL                     |              |                   |                 |                                                                         |                  | 10 uL                     |              |                   |                 |                  |     |
| Dilution Factor             |  | 1                         |              |                   |                 |       |                  | 10                        |              |                   |                 |                                                                         |                  | 1                         |              |                   |                 |                  |     |
| Analysis Units              |  | pg/g dwt                  |              |                   |                 |       |                  | pg/g dwt                  |              |                   |                 |                                                                         |                  | pg/g dwt                  |              |                   |                 |                  |     |
| Instrument - Column         |  | HRMS-6 SPBOCTYL-281311-07 |              |                   |                 |       |                  | HRMS-6 SPBOCTYL-283388-03 |              |                   |                 |                                                                         |                  | HRMS-6 SPBOCTYL-283388-03 |              |                   |                 |                  |     |
| Target Analytes             |  | TEF<br>(WHO 2005)         | Ret.<br>Time | Conc.<br>pg/g dwt | EDL<br>pg/g dwt | Flags | EMPC<br>pg/g dwt | LQL                       | Ret.<br>Time | Conc.<br>pg/g dwt | EDL<br>pg/g dwt | Flags                                                                   | EMPC<br>pg/g dwt | LQL                       | Ret.<br>Time | Conc.<br>pg/g dwt | EDL<br>pg/g dwt | EMPC<br>pg/g dwt | LQL |
| PCB-088/091                 |  |                           | 20.19        | 29.4              | 6.3             | J     |                  | 35                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-084                     |  |                           | 20.35        | 43.9              | 6.6             |       |                  | 35                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-089                     |  |                           | NotFnd       | <7.9              | 7.9             | U     |                  | 35                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-121                     |  |                           | NotFnd       | <4.5              | 4.5             | U     |                  | 35                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-092                     |  |                           | 20.93        | 136               | 7.1             |       |                  | 35                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-090/101/113             |  |                           | 21.23        | 734               | 5.1             |       |                  | 35                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-083/099                 |  |                           | 21.54        | 2760              | 6.7             |       |                  | 35                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-112                     |  |                           | NotFnd       | <4.2              | 4.2             | U     |                  | 35                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-086/087/097/109/119/125 |  |                           | 21.91        | 361               | 4.9             | M     |                  | 35                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-085/110/115/116/117     |  |                           | 22.33        | 1740              | 4.8             | M     |                  | 35                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-082                     |  |                           | 22.53        | 77.6              | 8.1             | M     |                  | 35                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-111                     |  |                           | 22.60        | <8.2              | 4.4             | J,R   | 8.2              | 35                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-120                     |  |                           | 22.85        | <32               | 4.2             | J,R   | 32               | 35                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-108/124                 |  |                           | 23.49        | 87.7              | 8.4             |       |                  | 35                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-107                     |  |                           | 23.61        | 905               | 7.9             | M     |                  | 35                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-123                     |  | 0.00003                   | 23.67        | 118               | 9.5             | M     |                  | 35                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-106                     |  |                           | NotFnd       | <9.1              | 9.1             | U     |                  | 35                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-118                     |  | 0.00003                   | 23.86        | 41900             | 6.8             |       |                  | 35                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-122                     |  |                           | 24.05        | <120              | 11              | R     | 120              | 35                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-114                     |  | 0.00003                   | 24.16        | 781               | 9.9             |       |                  | 35                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-105                     |  | 0.00003                   | 24.52        | 8140              | 8.9             |       |                  | 35                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-127                     |  |                           | 25.23        | <26               | 8.8             | J,R   | 26               | 35                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-126                     |  | 0.1                       |              |                   |                 |       |                  |                           |              |                   |                 |                                                                         |                  |                           | 26.14        | 2270              | 0.90            | M                | 14  |
| PCB-155                     |  |                           | NotFnd       | <0.94             | 0.94            | U     |                  | 35                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-152                     |  |                           | NotFnd       | <1.8              | 1.8             | U     |                  | 35                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-150                     |  |                           | 21.33        | <1.5              | 1.4             | J,R   | 1.5              | 35                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-136                     |  |                           | 21.58        | 47.6              | 1.7             |       |                  | 35                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-145                     |  |                           | NotFnd       | <1.6              | 1.6             | U     |                  | 35                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-148                     |  |                           | NotFnd       | <2.2              | 2.2             | U     |                  | 35                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-135/151                 |  |                           | 22.77        | 672               | 2.5             |       |                  | 35                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-154                     |  |                           | NotFnd       | <1.4              | 1.4             | U     |                  | 35                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-144                     |  |                           | 23.06        | 75.0              | 2.3             |       |                  | 35                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-147/149                 |  |                           | 23.25        | 1120              | 11              |       |                  | 35                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-134/143                 |  |                           | 23.40        | 35.1              | 14              |       |                  | 35                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-139/140                 |  |                           | 23.55        | 82.7              | 11              |       |                  | 35                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-131                     |  |                           | NotFnd       | <14               | 14              | U     |                  | 35                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-142                     |  |                           | NotFnd       | <14               | 14              | U     |                  | 35                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-132                     |  |                           | 23.96        | 411               | 13              |       |                  | 35                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-133                     |  |                           | 24.12        | 397               | 12              |       |                  | 35                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-165                     |  |                           | 24.33        | 31.9              | 8.8             | J     |                  | 35                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-146                     |  |                           | 24.45        | 2600              | 10              |       |                  | 35                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-161                     |  |                           | NotFnd       | <7.7              | 7.7             | U     |                  | 35                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-153/168                 |  |                           | 24.76        | 29600             | 8.4             |       |                  | 35                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-141                     |  |                           | 24.91        | 672               | 11              |       |                  | 35                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-130                     |  |                           | 25.14        | 1370              | 13              |       |                  | 35                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-137/164                 |  |                           | 25.23        | 520               | 9.6             | M     |                  | 35                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-129/138/163             |  |                           | 25.46        | 28800             | 11              |       |                  | 35                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-160                     |  |                           | NotFnd       | <8.6              | 8.6             | U     |                  | 35                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-158                     |  |                           | 25.67        | 1500              | 6.9             |       |                  | 35                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-128/166                 |  |                           | 26.16        | 2500              | 9.3             | M     |                  | 35                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-159                     |  |                           | 26.60        | 47.9              | 8.0             |       |                  | 35                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-162                     |  |                           | 26.73        | 255               | 8.3             |       |                  | 35                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-167                     |  | 0.00003                   | 26.97        | 4870              | 7.1             |       |                  | 35                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-156/157                 |  | 0.00003                   | 27.60        | 10500             | 12              |       |                  | 70                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-169                     |  | 0.03                      |              |                   |                 |       |                  |                           |              |                   |                 |                                                                         |                  |                           | 29.31        | 122               | 0.51            |                  | 14  |
| PCB-188                     |  |                           | 24.07        | <3.4              | 3.4             | U     | 1.3              | 35                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-179                     |  |                           | 24.33        | 115               | 4.1             |       |                  | 35                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-184                     |  |                           | 24.53        | <3.8              | 3.8             | U     | 1.7              | 35                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-176                     |  |                           | 24.76        | 50.8              | 4.1             |       |                  | 35                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-186                     |  |                           | NotFnd       | <4.4              | 4.4             | U     |                  | 35                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-178                     |  |                           | 25.66        | 4690              | 6.0             |       |                  | 35                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-175                     |  |                           | 25.98        | 185               | 5.7             |       |                  | 35                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-187                     |  |                           | 26.12        | 28000             | 5.3             |       |                  | 35                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-182                     |  |                           | NotFnd       | <5.2              | 5.2             | U     |                  | 35                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-183                     |  |                           | 26.43        | 6330              | 5.2             |       |                  | 35                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-185                     |  |                           | 26.53        | <130              | 6.2             | R     | 130              | 35                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-174                     |  |                           | 26.60        | 718               | 5.4             |       |                  | 35                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-177                     |  |                           | 26.83        | 12400             | 5.9             |       |                  | 35                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-181                     |  |                           | 27.02        | <65               | 6.1             | R     | 65               | 35                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-171/173                 |  |                           |              |                   |                 |       |                  |                           | 27.15        | 1480              | 68              |                                                                         |                  | 350                       |              |                   |                 |                  |     |
| PCB-172                     |  |                           | 27.93        | 7260              | 5.8             |       |                  | 35                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |



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## Sample Analysis Report

|                 |                 |                  |           |       |                                                                          |
|-----------------|-----------------|------------------|-----------|-------|--------------------------------------------------------------------------|
| Sample Name     | PLOT 4 - 6 JARS | Sampling Date    | 25-May-24 | g dwt | <div>Approved:<br/>S. Sarhaddi<br/>--e-signature--<br/>14-Aug-2024</div> |
| ALS Sample ID   | L2756078-1      | Extraction Date  | 6-Jul-24  |       |                                                                          |
| Analysis Method | EPA 1668C       | Sample Size      | 2.87      |       |                                                                          |
| Analysis Type   | Sample          | Percent Moisture | 72.0%     |       |                                                                          |
| Sample Matrix   | Tissue          | Split Ratio      | 4         |       |                                                                          |

| Run Information     | Run 1                     | Run 2                     | Run 3                     |
|---------------------|---------------------------|---------------------------|---------------------------|
| Filename            | 6-240714A11               | 6-240718A23               | 6-240812C25               |
| Run Date            | 14-Jul-24 14:53           | 19-Jul-24 05:30           | 13-Aug-24 12:08           |
| Final Volume        | 25 ul                     | 25 uL                     | 10 uL                     |
| Dilution Factor     | 1                         | 10                        | 1                         |
| Analysis Units      | pg/g dwt                  | pg/g dwt                  | pg/g dwt                  |
| Instrument - Column | HRMS-6 SPBOCTYL-281311-07 | HRMS-6 SPBOCTYL-283388-03 | HRMS-6 SPBOCTYL-283388-03 |

|                      |  | TEF        | Ret.  | Conc.    | EDL      |       | EMPC     |     |  |  | Ret.  | Conc.    | EDL      |       | EMPC     |     |  |  | Ret.  | Conc.    | EDL      |       | EMPC     |     |
|----------------------|--|------------|-------|----------|----------|-------|----------|-----|--|--|-------|----------|----------|-------|----------|-----|--|--|-------|----------|----------|-------|----------|-----|
| Target Analytes      |  | (WHO 2005) | Time  | pg/g dwt | pg/g dwt | Flags | pg/g dwt | LQL |  |  | Time  | pg/g dwt | pg/g dwt | Flags | pg/g dwt | LQL |  |  | Time  | pg/g dwt | pg/g dwt | Flags | pg/g dwt | LQL |
| PCB-192              |  |            | 28.12 | <4.9     |          | U     | 1.4      | 35  |  |  |       |          |          |       |          |     |  |  |       |          |          |       |          |     |
| PCB-180/193          |  |            | 28.27 | 74800    |          |       |          | 35  |  |  |       |          |          |       |          |     |  |  |       |          |          |       |          |     |
| PCB-191              |  |            | 28.46 | <140     |          | R     | 140      | 35  |  |  |       |          |          |       |          |     |  |  |       |          |          |       |          |     |
| PCB-170              |  |            | 28.97 | 11300    |          |       |          | 35  |  |  |       |          |          |       |          |     |  |  |       |          |          |       |          |     |
| PCB-190              |  |            | 29.23 | 9410     |          |       |          | 35  |  |  |       |          |          |       |          |     |  |  |       |          |          |       |          |     |
| PCB-189              |  | 0.00003    | 30.54 | 2460     |          |       |          | 35  |  |  |       |          |          |       |          |     |  |  |       |          |          |       |          |     |
| PCB-202              |  |            | 26.85 | 1770     |          |       |          | 35  |  |  |       |          |          |       |          |     |  |  |       |          |          |       |          |     |
| PCB-201              |  |            | 27.32 | 275      |          |       |          | 35  |  |  |       |          |          |       |          |     |  |  |       |          |          |       |          |     |
| PCB-204              |  |            | 27.67 | <1.5     |          | U     | 0.63     | 35  |  |  |       |          |          |       |          |     |  |  |       |          |          |       |          |     |
| PCB-197              |  |            | 27.78 | 170      |          |       |          | 35  |  |  |       |          |          |       |          |     |  |  |       |          |          |       |          |     |
| PCB-200              |  |            | 27.89 | <27      |          | J,R   | 27       | 35  |  |  |       |          |          |       |          |     |  |  |       |          |          |       |          |     |
| PCB-198/199          |  |            | 29.28 | 33500    |          |       |          | 35  |  |  |       |          |          |       |          |     |  |  |       |          |          |       |          |     |
| PCB-196              |  |            | 29.61 | 2500     |          |       |          | 35  |  |  |       |          |          |       |          |     |  |  |       |          |          |       |          |     |
| PCB-203              |  |            | 29.70 | 14900    |          |       |          | 35  |  |  |       |          |          |       |          |     |  |  |       |          |          |       |          |     |
| PCB-195              |  |            | 30.46 | 5470     |          |       |          | 35  |  |  |       |          |          |       |          |     |  |  |       |          |          |       |          |     |
| PCB-194              |  |            | 31.71 | 33300    |          |       |          | 35  |  |  |       |          |          |       |          |     |  |  |       |          |          |       |          |     |
| PCB-205              |  |            | 32.00 | 1780     |          |       |          | 35  |  |  |       |          |          |       |          |     |  |  |       |          |          |       |          |     |
| PCB-208              |  |            |       |          |          |       |          |     |  |  | 30.30 | 799      |          | 36    |          |     |  |  |       |          |          |       |          | 350 |
| PCB-207              |  |            | 30.76 | 205      |          |       |          | 35  |  |  |       |          |          |       |          |     |  |  |       |          |          |       |          |     |
| PCB-206              |  |            | 33.12 | 6810     |          |       |          | 35  |  |  |       |          |          |       |          |     |  |  |       |          |          |       |          |     |
| PCB-209              |  |            | 34.31 | 518      |          |       |          | 35  |  |  |       |          |          |       |          |     |  |  |       |          |          |       |          |     |
| Extraction Standards |  | pg         | Time  | % Rec    | Limits   |       |          |     |  |  | Time  | % Rec    | Limits   |       |          |     |  |  | Time  | % Rec    | Limits   |       |          |     |
| 13C12-PCB-001        |  | 4000       | 9.39  | 34       | 5-145    |       |          |     |  |  |       |          |          |       |          |     |  |  |       |          |          |       |          |     |
| 13C12-PCB-003        |  | 4000       | 10.97 | 37       | 5-145    |       |          |     |  |  |       |          |          |       |          |     |  |  |       |          |          |       |          |     |
| 13C12-PCB-004        |  | 4000       | 11.13 | 47       | 5-145    |       |          |     |  |  |       |          |          |       |          |     |  |  |       |          |          |       |          |     |
| 13C12-PCB-015        |  | 4000       | 14.88 | 44       | 5-145    |       |          |     |  |  |       |          |          |       |          |     |  |  |       |          |          |       |          |     |
| 13C12-PCB-019        |  | 4000       | 13.18 | 50       | 5-145    |       |          |     |  |  |       |          |          |       |          |     |  |  |       |          |          |       |          |     |
| 13C12-PCB-037        |  | 4000       | 18.83 | 58       | 5-145    |       |          |     |  |  |       |          |          |       |          |     |  |  |       |          |          |       |          |     |
| 13C12-PCB-054        |  | 4000       | 15.05 | 53       | 5-145    |       |          |     |  |  |       |          |          |       |          |     |  |  |       |          |          |       |          |     |
| 13C12-PCB-081        |  | 4000       | 22.41 | 70       | 10-145   |       |          |     |  |  |       |          |          |       |          |     |  |  |       |          |          |       |          |     |
| 13C12-PCB-077        |  | 4000       | 22.71 | 66       | 10-145   |       |          |     |  |  |       |          |          |       |          |     |  |  |       |          |          |       |          |     |
| 13C12-PCB-104        |  | 4000       | 18.09 | 61       | 10-145   |       |          |     |  |  |       |          |          |       |          |     |  |  |       |          |          |       |          |     |
| 13C12-PCB-123        |  | 4000       | 23.67 | 72       | 10-145   |       |          |     |  |  |       |          |          |       |          |     |  |  |       |          |          |       |          |     |
| 13C12-PCB-118        |  | 4000       | 23.84 | 94       | 10-145   |       |          |     |  |  |       |          |          |       |          |     |  |  |       |          |          |       |          |     |
| 13C12-PCB-114        |  | 4000       | 24.15 | 70       | 10-145   |       |          |     |  |  |       |          |          |       |          |     |  |  |       |          |          |       |          |     |
| 13C12-PCB-105        |  | 4000       | 24.51 | 75       | 10-145   |       |          |     |  |  |       |          |          |       |          |     |  |  |       |          |          |       |          |     |
| 13C12-PCB-126        |  | 4000       |       |          |          |       |          |     |  |  |       |          |          |       |          |     |  |  | 26.13 | 82       | 10-145   |       |          |     |
| 13C12-PCB-155        |  | 4000       | 21.07 | 76       | 10-145   |       |          |     |  |  |       |          |          |       |          |     |  |  |       |          |          |       |          |     |
| 13C12-PCB-167        |  | 4000       | 26.96 | 76       | 10-145   |       |          |     |  |  |       |          |          |       |          |     |  |  |       |          |          |       |          |     |
| 13C12-PCB-156/157    |  | 8000       | 27.61 | 69       | 10-145   |       |          |     |  |  |       |          |          |       |          |     |  |  |       |          |          |       |          |     |
| 13C12-PCB-169        |  | 4000       |       |          |          |       |          |     |  |  |       |          |          |       |          |     |  |  | 29.29 | 90       | 10-145   |       |          |     |
| 13C12-PCB-188        |  | 4000       | 24.07 | 69       | 10-145   |       |          |     |  |  |       |          |          |       |          |     |  |  |       |          |          |       |          |     |
| 13C12-PCB-189        |  | 4000       | 30.52 | 70       | 10-145   |       |          |     |  |  |       |          |          |       |          |     |  |  |       |          |          |       |          |     |
| 13C12-PCB-202        |  | 4000       | 26.84 | 79       | 10-145   |       |          |     |  |  |       |          |          |       |          |     |  |  |       |          |          |       |          |     |
| 13C12-PCB-205        |  | 4000       | 31.99 | 74       | 10-145   |       |          |     |  |  |       |          |          |       |          |     |  |  |       |          |          |       |          |     |
| 13C12-PCB-208        |  | 4000       |       |          |          |       |          |     |  |  | 30.29 | 74       | 10-145   | R     |          |     |  |  |       |          |          |       |          |     |
| 13C12-PCB-206        |  | 4000       | 33.11 | 76       | 10-145   |       |          |     |  |  |       |          |          |       |          |     |  |  |       |          |          |       |          |     |
| 13C12-PCB-209        |  | 4000       | 34.28 | 83       | 10-145   |       |          |     |  |  |       |          |          |       |          |     |  |  |       |          |          |       |          |     |
| Cleanup Standards    |  |            |       |          |          |       |          |     |  |  |       |          |          |       |          |     |  |  |       |          |          |       |          |     |
| 13C12-PCB-028        |  | 4000       | 16.56 | 55       | 5-145    |       |          |     |  |  |       |          |          |       |          |     |  |  |       |          |          |       |          |     |
| 13C12-PCB-111        |  | 4000       | 22.59 | 71       | 10-145   |       |          |     |  |  |       |          |          |       |          |     |  |  |       |          |          |       |          |     |
| 13C12-PCB-178        |  | 4000       | 25.64 | 70       | 10-145   |       |          |     |  |  |       |          |          |       |          |     |  |  |       |          |          |       |          |     |

| ALS Life Sciences              |  |                                                                                                                                                   |      |          |          |       |          |                           |          |                                 |          |                                                                         |      |                           |          |          |       |     |          |
|--------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|----------|-------|----------|---------------------------|----------|---------------------------------|----------|-------------------------------------------------------------------------|------|---------------------------|----------|----------|-------|-----|----------|
| Sample Analysis Report         |  |                                                                                                                                                   |      |          |          |       |          |                           |          |                                 |          |                                                                         |      |                           |          |          |       |     |          |
| Sample Name                    |  | PLOT 4 - 6 JARS                                                                                                                                   |      |          |          |       |          | Sampling Date             |          | 25-May-24                       |          | <div>Approved:<br/>S.Sarhaddi<br/>--e-signature--<br/>14-Aug-2024</div> |      |                           |          |          |       |     |          |
| ALS Sample ID                  |  | L2756078-1                                                                                                                                        |      |          |          |       |          | Extraction Date           |          | 6-Jul-24                        |          |                                                                         |      |                           |          |          |       |     |          |
| Analysis Method                |  | EPA 1668C                                                                                                                                         |      |          |          |       |          | Sample Size               |          | 2.87g dwt                       |          |                                                                         |      |                           |          |          |       |     |          |
| Analysis Type                  |  | Sample                                                                                                                                            |      |          |          |       |          | Percent Moisture          |          | 72.0%                           |          |                                                                         |      |                           |          |          |       |     |          |
| Sample Matrix                  |  | Tissue                                                                                                                                            |      |          |          |       |          | Split Ratio               |          | 4                               |          |                                                                         |      |                           |          |          |       |     |          |
| Run Information                |  | Run 1                                                                                                                                             |      |          |          |       |          | Run 2                     |          |                                 |          |                                                                         |      | Run 3                     |          |          |       |     |          |
| Filename                       |  | 6-240714A11                                                                                                                                       |      |          |          |       |          | 6-240718A23               |          |                                 |          |                                                                         |      | 6-240812C25               |          |          |       |     |          |
| Run Date                       |  | 14-Jul-24 14:53                                                                                                                                   |      |          |          |       |          | 19-Jul-24 05:30           |          |                                 |          |                                                                         |      | 13-Aug-24 12:08           |          |          |       |     |          |
| Final Volume                   |  | 25 ul                                                                                                                                             |      |          |          |       |          | 25 uL                     |          |                                 |          |                                                                         |      | 10 uL                     |          |          |       |     |          |
| Dilution Factor                |  | 1                                                                                                                                                 |      |          |          |       |          | 10                        |          |                                 |          |                                                                         |      | 1                         |          |          |       |     |          |
| Analysis Units                 |  | pg/g dwt                                                                                                                                          |      |          |          |       |          | pg/g dwt                  |          |                                 |          |                                                                         |      | pg/g dwt                  |          |          |       |     |          |
| Instrument - Column            |  | HRMS-6 SPBOCTYL-281311-07                                                                                                                         |      |          |          |       |          | HRMS-6 SPBOCTYL-283388-03 |          |                                 |          |                                                                         |      | HRMS-6 SPBOCTYL-283388-03 |          |          |       |     |          |
| Target Analytes                |  | TEF                                                                                                                                               | Ret. | Conc.    | EDL      | EMPC  |          | Ret.                      | Conc.    | EDL                             | EMPC     |                                                                         | Ret. | Conc.                     | EDL      | EMPC     |       | LQL |          |
|                                |  | (WHO 2005)                                                                                                                                        | Time | pg/g dwt | pg/g dwt | Flags | pg/g dwt |                           | pg/g dwt | Flags                           | pg/g dwt | pg/g dwt                                                                |      | Flags                     | pg/g dwt | pg/g dwt | Flags |     | pg/g dwt |
| Homologue Group Totals         |  |                                                                                                                                                   |      | pg/g dwt | pg/g dwt | Flags |          |                           |          |                                 |          |                                                                         |      |                           |          |          |       |     |          |
| Total MonoCB                   |  |                                                                                                                                                   |      | 3.23     | 1.9      | J     |          |                           |          |                                 |          |                                                                         |      |                           |          |          |       |     | 140      |
| Total DiCB                     |  |                                                                                                                                                   |      | 95.7     | 7.8      | J     |          |                           |          |                                 |          |                                                                         |      |                           |          |          |       |     | 280      |
| Total TriCB                    |  |                                                                                                                                                   |      | 646      | 3.3      | J     |          |                           |          |                                 |          |                                                                         |      |                           |          |          |       |     | 280      |
| Total TetraCB                  |  |                                                                                                                                                   |      | 5400     | 1.6      | J     |          |                           |          |                                 |          |                                                                         |      |                           |          |          |       |     | 560      |
| Total PentaCB                  |  |                                                                                                                                                   |      | 60500    | 0.90     | J     |          |                           |          |                                 |          |                                                                         |      |                           |          |          |       |     | 560      |
| Total HexaCB                   |  |                                                                                                                                                   |      | 86200    | 0.51     | J     |          |                           |          |                                 |          |                                                                         |      |                           |          |          |       |     | 560      |
| Total HeptaCB                  |  |                                                                                                                                                   |      | 160000   | 3.4      | J     |          |                           |          |                                 |          |                                                                         |      |                           |          |          |       |     | 280      |
| Total OctaCB                   |  |                                                                                                                                                   |      | 93700    | 1.4      | J     |          |                           |          |                                 |          |                                                                         |      |                           |          |          |       |     | 280      |
| Total NonaCB                   |  |                                                                                                                                                   |      | 7810     | 2.8      | J     |          |                           |          |                                 |          |                                                                         |      |                           |          |          |       |     | 140      |
| DecaCB                         |  |                                                                                                                                                   |      | 518      | 0.85     | J     |          |                           |          |                                 |          |                                                                         |      |                           |          |          |       |     | 140      |
| Total PCB                      |  |                                                                                                                                                   |      | 414000   |          | J     |          |                           |          |                                 |          |                                                                         |      |                           |          |          |       |     | 1100     |
| Toxic Equivalency - (WHO 2005) |  |                                                                                                                                                   |      |          |          |       |          |                           |          |                                 |          |                                                                         |      |                           |          |          |       |     |          |
| Lower Bound PCB TEQ            |  |                                                                                                                                                   |      | 233      |          |       |          |                           |          |                                 |          |                                                                         |      |                           |          |          |       |     |          |
| Mid Point PCB TEQ              |  |                                                                                                                                                   |      | 233      |          |       |          |                           |          |                                 |          |                                                                         |      |                           |          |          |       |     |          |
| Upper Bound PCB TEQ            |  |                                                                                                                                                   |      | 233      |          |       |          |                           |          |                                 |          |                                                                         |      |                           |          |          |       |     |          |
| EDL                            |  | Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.                                   |      |          |          |       |          |                           |          |                                 |          |                                                                         |      |                           |          |          |       |     |          |
| TEF                            |  | Indicates the Toxic Equivalency Factor                                                                                                            |      |          |          |       |          | TEQ                       |          | Indicates the Toxic Equivalency |          |                                                                         |      |                           |          |          |       |     |          |
| LQL                            |  | Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.                                |      |          |          |       |          |                           |          |                                 |          |                                                                         |      |                           |          |          |       |     |          |
| M                              |  | Indicates that a peak has been manually integrated.                                                                                               |      |          |          |       |          |                           |          |                                 |          |                                                                         |      |                           |          |          |       |     |          |
| U                              |  | Indicates that this compound was not detected above the EDL.                                                                                      |      |          |          |       |          |                           |          |                                 |          |                                                                         |      |                           |          |          |       |     |          |
| E                              |  | Indicates that this compound was detected above the calibrated range.                                                                             |      |          |          |       |          |                           |          |                                 |          |                                                                         |      |                           |          |          |       |     |          |
| J                              |  | Indicates that the analyte was positively identified. The associated numerical result is an estimate.                                             |      |          |          |       |          |                           |          |                                 |          |                                                                         |      |                           |          |          |       |     |          |
| R                              |  | Indicates that the ion abundance ratio for this analyte did not meet the control limit. The reported value represents an estimated concentration. |      |          |          |       |          |                           |          |                                 |          |                                                                         |      |                           |          |          |       |     |          |
| EMPC                           |  | Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure                          |      |          |          |       |          |                           |          |                                 |          |                                                                         |      |                           |          |          |       |     |          |

ALS Life Sciences

## Sample Analysis Report

|                    |                         |                  |           |       |                                                                                                     |
|--------------------|-------------------------|------------------|-----------|-------|-----------------------------------------------------------------------------------------------------|
| <b>Sample Name</b> | <b>PLOT 11 - 4 JARS</b> | Sampling Date    | 25-May-24 | g dwt | <div>Approved:</div> <div><i>S.Sarhaddi</i></div> <div>--e-signature--</div> <div>14-Aug-2024</div> |
| ALS Sample ID      | L2756078-2              | Extraction Date  | 6-Jul-24  |       |                                                                                                     |
| Analysis Method    | EPA 1668C               | Sample Size      | 3         |       |                                                                                                     |
| Analysis Type      | Sample                  | Percent Moisture | 70.9%     |       |                                                                                                     |
| Sample Matrix      | Tissue                  | Split Ratio      | 4         |       |                                                                                                     |

| Run Information     | Run 1                     | Run 2                     | Run 3                     |
|---------------------|---------------------------|---------------------------|---------------------------|
| Filename            | 6-240714A12               | 6-240718A24               | 6-240810A11               |
| Run Date            | 14-Jul-24 15:39           | 19-Jul-24 06:17           | 10-Aug-24 21:37           |
| Final Volume        | 25 ul                     | 25 uL                     | 10 uL                     |
| Dilution Factor     | 1                         | 10                        | 1                         |
| Analysis Units      | pg/g dwt                  | pg/g dwt                  | pg/g dwt                  |
| Instrument - Column | HRMS-6 SPBOCTYL-281311-07 | HRMS-6 SPBOCTYL-283388-03 | HRMS-6 SPBOCTYL-283388-03 |

| Target Analytes | TEF                 | Ret.   | Conc.    | EDL      |       | EMPC     | LQL | Ret. | Conc.    | EDL      |       | EMPC     | LQL | Ret. | Conc.    | EDL      |       | EMPC     | LQL |
|-----------------|---------------------|--------|----------|----------|-------|----------|-----|------|----------|----------|-------|----------|-----|------|----------|----------|-------|----------|-----|
|                 | (WHO 2005)          | Time   | pg/g dwt | pg/g dwt | Flags | pg/g dwt |     | Time | pg/g dwt | pg/g dwt | Flags | pg/g dwt |     | Time | pg/g dwt | pg/g dwt | Flags | pg/g dwt |     |
|                 | PCB-001             | 9.40   | 3.59     | 1.3      | J     |          | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-002             | NotFnd | <1.4     | 1.4      | U     |          | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-003             | 10.97  | 5.54     | 1.5      | M,J   |          | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-004             | NotFnd | <13      | 13       | U     |          | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-010             | NotFnd | <7.6     | 7.6      | U     |          | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-009             | NotFnd | <8.1     | 8.1      | U     |          | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-007             | NotFnd | <8.2     | 8.2      | U     |          | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-006             | NotFnd | <8.0     | 8.0      | U     |          | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-005             | NotFnd | <9.3     | 9.3      | U     |          | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-008             | NotFnd | <7.0     | 7.0      | U     |          | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-014             | NotFnd | <13      | 13       | U     |          | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-011             | 14.49  | 118      | 13       |       |          | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-012/013         | NotFnd | <13      | 13       | U     |          | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-015             | NotFnd | <15      | 15       | U     |          | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-019             | NotFnd | <4.1     | 4.1      | U     |          | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-018/030         | 14.30  | 6.81     | 3.7      | J     |          | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-017             | 14.54  | <4.3     | 4.3      | U     | 3.5      | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-027             | NotFnd | <3.3     | 3.3      | U     |          | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-024             | NotFnd | <3.7     | 3.7      | U     |          | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-016             | 14.85  | <4.9     | 4.9      | M,U   |          | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-032             | NotFnd | <3.0     | 3.0      | U     |          | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-034             | NotFnd | <3.5     | 3.5      | U     |          | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-023             | NotFnd | <3.4     | 3.4      | U     |          | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-026/029         | 16.07  | <3.2     | 3.2      | U     | 2.0      | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-025             | NotFnd | <3.2     | 3.2      | U     |          | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-031             | 16.41  | 10.7     | 3.1      | J     |          | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-020/028         | 16.57  | 65.4     | 3.3      |       |          | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-021/033         | 16.73  | <7.7     | 3.3      | J,R   | 7.7      | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-022             | 16.98  | <3.7     | 3.7      | U     | 3.1      | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-036             | NotFnd | <3.1     | 3.1      | U     |          | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-039             | NotFnd | <3.8     | 3.8      | U     |          | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-038             | NotFnd | <3.6     | 3.6      | U     |          | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-035             | NotFnd | <3.7     | 3.7      | U     |          | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-037             | 18.84  | 35.2     | 3.6      |       |          | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-054             | NotFnd | <0.90    | 0.90     | U     |          | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-050/053         | NotFnd | <2.8     | 2.8      | U     |          | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-045/051         | 16.68  | <2.9     | 2.9      | U     | 2.7      | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-046             | 16.83  | <3.2     | 3.2      | U     |          | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-052             | 17.58  | 32.8     | 3.2      | J     |          | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-073             | NotFnd | <2.0     | 2.0      | U     |          | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-043             | NotFnd | <3.1     | 3.1      | U     |          | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-049/069         | 17.84  | <4.9     | 2.4      | M,J,R | 4.9      | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-048             | 18.00  | <2.9     | 2.9      | U     | 1.5      | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-044/047/065     | 18.15  | 22.2     | 2.5      | J     |          | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-059/062/075     | 18.34  | <2.8     | 2.1      | J,R   | 2.8      | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-042             | 18.43  | <3.2     | 3.2      | U     | 2.9      | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-040/041/071     | 18.72  | 4.72     | 2.9      | M,J   |          | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-064             | 18.83  | <7.9     | 2.1      | J,R   | 7.9      | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-072             | NotFnd | <3.2     | 3.2      | U     |          | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-068             | NotFnd | <3.0     | 3.0      | U     |          | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-057             | NotFnd | <3.3     | 3.3      | U     |          | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-058             | NotFnd | <3.1     | 3.1      | U     |          | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-067             | NotFnd | <2.8     | 2.8      | U     |          | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-063             | 19.98  | <4.2     | 3.0      | J,R   | 4.2      | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-061/070/074/076 | 20.22  | 444      | 3.1      |       |          | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-066             | 20.36  | 83.4     | 3.0      |       |          | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-055             | NotFnd | <3.4     | 3.4      | U     |          | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-056             | 20.75  | 10.1     | 3.0      | J     |          | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-060             | 20.87  | 60.0     | 3.3      |       |          | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-080             | NotFnd | <2.6     | 2.6      | U     |          | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-079             | 21.85  | <3.2     | 2.8      | J,R   | 3.2      | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-078             | NotFnd | <3.5     | 3.5      | U     |          | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-081             | 0.0003 | 22.42    | 3.4      | J,R   | 16       | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-077             | 0.0001 | 22.72    | 236      |       |          | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-104             | NotFnd | <2.2     | 2.2      | U     |          | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-096             | NotFnd | <3.0     | 3.0      | U     |          | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-103             | NotFnd | <4.6     | 4.6      | U     |          | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-094             | NotFnd | <5.0     | 5.0      | U     |          | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-095             | 19.73  | 41.8     | 5.8      |       |          | 33  |      |          |          |       |          |     |      |          |          |       |          |     |
|                 | PCB-093/098/100/102 | NotFnd | <4.3     | 4.3      | U     |          | 33  |      |          |          |       |          |     |      |          |          |       |          |     |



| ALS Life Sciences           |  |                           |              |                   |                 |       |                           |     |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
|-----------------------------|--|---------------------------|--------------|-------------------|-----------------|-------|---------------------------|-----|--------------|-------------------|-------------------------------------------------------------------------|---------------------------|------------------|-----|--------------|-------------------|-----------------|------------------|-----|
| Sample Analysis Report      |  |                           |              |                   |                 |       |                           |     |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| Sample Name                 |  | PLOT 11 - 4 JARS          |              |                   |                 |       | Sampling Date             |     | 25-May-24    |                   | <div>Approved:<br/>S.Sarhaddi<br/>--e-signature--<br/>14-Aug-2024</div> |                           |                  |     |              |                   |                 |                  |     |
| ALS Sample ID               |  | L2756078-2                |              |                   |                 |       | Extraction Date           |     | 6-Jul-24     |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| Analysis Method             |  | EPA 1668C                 |              |                   |                 |       | Sample Size               |     | 3 g dwt      |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| Analysis Type               |  | Sample                    |              |                   |                 |       | Percent Moisture          |     | 70.9%        |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| Sample Matrix               |  | Tissue                    |              |                   |                 |       | Split Ratio               |     | 4            |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| Run Information             |  | Run 1                     |              |                   |                 |       | Run 2                     |     |              |                   |                                                                         | Run 3                     |                  |     |              |                   |                 |                  |     |
| Filename                    |  | 6-240714A12               |              |                   |                 |       | 6-240718A24               |     |              |                   |                                                                         | 6-240810A11               |                  |     |              |                   |                 |                  |     |
| Run Date                    |  | 14-Jul-24 15:39           |              |                   |                 |       | 19-Jul-24 06:17           |     |              |                   |                                                                         | 10-Aug-24 21:37           |                  |     |              |                   |                 |                  |     |
| Final Volume                |  | 25 ul                     |              |                   |                 |       | 25 uL                     |     |              |                   |                                                                         | 10 uL                     |                  |     |              |                   |                 |                  |     |
| Dilution Factor             |  | 1                         |              |                   |                 |       | 10                        |     |              |                   |                                                                         | 1                         |                  |     |              |                   |                 |                  |     |
| Analysis Units              |  | pg/g dwt                  |              |                   |                 |       | pg/g dwt                  |     |              |                   |                                                                         | pg/g dwt                  |                  |     |              |                   |                 |                  |     |
| Instrument - Column         |  | HRMS-6 SPBOCTYL-281311-07 |              |                   |                 |       | HRMS-6 SPBOCTYL-283388-03 |     |              |                   |                                                                         | HRMS-6 SPBOCTYL-283388-03 |                  |     |              |                   |                 |                  |     |
| Target Analytes             |  | TEF<br>(WHO 2005)         | Ret.<br>Time | Conc.<br>pg/g dwt | EDL<br>pg/g dwt | Flags | EMPC<br>pg/g dwt          | LQL | Ret.<br>Time | Conc.<br>pg/g dwt | EDL<br>pg/g dwt                                                         | Flags                     | EMPC<br>pg/g dwt | LQL | Ret.<br>Time | Conc.<br>pg/g dwt | EDL<br>pg/g dwt | EMPC<br>pg/g dwt | LQL |
| PCB-088/091                 |  |                           | 20.18        | <4.7              | 4.7             | U     | 3.9                       | 33  |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| PCB-084                     |  |                           | 20.35        | <7.8              | 4.9             | J,R   | 7.8                       | 33  |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| PCB-089                     |  |                           | NotFnd       | <5.8              | 5.8             | U     |                           | 33  |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| PCB-121                     |  |                           | NotFnd       | <3.3              | 3.3             | U     |                           | 33  |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| PCB-092                     |  |                           | 20.93        | 33.3              | 5.2             |       |                           | 33  |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| PCB-090/101/113             |  |                           | 21.23        | 132               | 3.8             |       |                           | 33  |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| PCB-083/099                 |  |                           | 21.54        | 344               | 5.0             |       |                           | 33  |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| PCB-112                     |  |                           | NotFnd       | <3.1              | 3.1             | U     |                           | 33  |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| PCB-086/087/097/109/119/125 |  |                           | 21.90        | 60.8              | 3.6             | M     |                           | 33  |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| PCB-085/110/115/116/117     |  |                           | 22.33        | 299               | 3.5             | M     |                           | 33  |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| PCB-082                     |  |                           | 22.53        | 12.9              | 6.0             | J     |                           | 33  |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| PCB-111                     |  |                           | NotFnd       | <3.2              | 3.2             | U     |                           | 33  |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| PCB-120                     |  |                           | 22.86        | <4.6              | 3.1             | J,R   | 4.6                       | 33  |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| PCB-108/124                 |  |                           | 23.49        | <22               | 4.6             | J,R   | 22                        | 33  |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| PCB-107                     |  |                           | 23.61        | 125               | 4.3             | M     |                           | 33  |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| PCB-123                     |  | 0.00003                   | 23.67        | <14               | 5.3             | M,J,R | 14                        | 33  |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| PCB-106                     |  |                           | NotFnd       | <5.0              | 5.0             | U     |                           | 33  |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| PCB-118                     |  | 0.00003                   | 23.86        | 7550              | 4.2             |       |                           | 33  |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| PCB-122                     |  |                           | NotFnd       | <6.1              | 6.1             | U     |                           | 33  |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| PCB-114                     |  | 0.00003                   | 24.16        | <92               | 5.4             | R     | 92                        | 33  |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| PCB-105                     |  | 0.00003                   | 24.52        | 1070              | 5.2             |       |                           | 33  |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| PCB-127                     |  |                           | NotFnd       | <4.9              | 4.9             | U     |                           | 33  |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| PCB-126                     |  | 0.1                       |              |                   |                 |       |                           |     |              |                   |                                                                         |                           |                  |     | 26.08        | 368               | 0.95            |                  | 13  |
| PCB-155                     |  |                           | 21.06        | <0.97             | 0.97            | U     | 0.40                      | 33  |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| PCB-152                     |  |                           | NotFnd       | <1.9              | 1.9             | U     |                           | 33  |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| PCB-150                     |  |                           | NotFnd       | <1.4              | 1.4             | U     |                           | 33  |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| PCB-136                     |  |                           | 21.57        | <8.7              | 1.7             | J,R   | 8.7                       | 33  |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| PCB-145                     |  |                           | NotFnd       | <1.6              | 1.6             | U     |                           | 33  |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| PCB-148                     |  |                           | NotFnd       | <2.2              | 2.2             | U     |                           | 33  |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| PCB-135/151                 |  |                           | 22.76        | 136               | 2.6             |       |                           | 33  |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| PCB-154                     |  |                           | NotFnd       | <1.4              | 1.4             | U     |                           | 33  |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| PCB-144                     |  |                           | 23.05        | 13.0              | 2.3             | M,J   |                           | 33  |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| PCB-147/149                 |  |                           | 23.25        | 203               | 7.0             |       |                           | 33  |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| PCB-134/143                 |  |                           | 23.40        | 10.1              | 8.9             | J     |                           | 33  |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| PCB-139/140                 |  |                           | 23.55        | <13               | 6.9             | J,R   | 13                        | 33  |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| PCB-131                     |  |                           | NotFnd       | <9.0              | 9.0             | U     |                           | 33  |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| PCB-142                     |  |                           | NotFnd       | <8.8              | 8.8             | U     |                           | 33  |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| PCB-132                     |  |                           | 23.96        | 67.6              | 8.4             |       |                           | 33  |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| PCB-133                     |  |                           | 24.12        | <20               | 7.9             | J,R   | 20                        | 33  |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| PCB-165                     |  |                           | 24.31        | <5.7              | 5.7             | U     |                           | 33  |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| PCB-146                     |  |                           | 24.45        | 301               | 6.7             |       |                           | 33  |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| PCB-161                     |  |                           | NotFnd       | <5.0              | 5.0             | U     |                           | 33  |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| PCB-153/168                 |  |                           | 24.76        | 5830              | 5.5             |       |                           | 33  |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| PCB-141                     |  |                           | 24.91        | 158               | 7.0             |       |                           | 33  |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| PCB-130                     |  |                           | 25.14        | 228               | 8.5             |       |                           | 33  |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| PCB-137/164                 |  |                           | 25.23        | 88.5              | 6.3             | M     |                           | 33  |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| PCB-129/138/163             |  |                           | 25.46        | 5280              | 6.9             |       |                           | 33  |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| PCB-160                     |  |                           | NotFnd       | <5.6              | 5.6             | U     |                           | 33  |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| PCB-158                     |  |                           | 25.67        | 317               | 4.5             |       |                           | 33  |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| PCB-128/166                 |  |                           | 26.18        | 490               | 6.1             | M     |                           | 33  |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| PCB-159                     |  |                           | 26.60        | 13.6              | 5.2             | J     |                           | 33  |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| PCB-162                     |  |                           | 26.73        | 47.6              | 5.4             |       |                           | 33  |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| PCB-167                     |  | 0.00003                   | 26.97        | 1130              | 4.7             |       |                           | 33  |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| PCB-156/157                 |  | 0.00003                   | 27.60        | 2500              | 7.5             |       |                           | 67  |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| PCB-169                     |  | 0.03                      |              |                   |                 |       |                           |     |              |                   |                                                                         |                           |                  |     | 29.26        | 29.9              | 0.46            | M                | 13  |
| PCB-188                     |  |                           | NotFnd       | <2.8              | 2.8             | U     |                           | 33  |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| PCB-179                     |  |                           | 24.31        | 22.6              | 3.3             | J     |                           | 33  |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| PCB-184                     |  |                           | NotFnd       | <3.1              | 3.1             | U     |                           | 33  |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| PCB-176                     |  |                           | 24.76        | 9.09              | 3.3             | J     |                           | 33  |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| PCB-186                     |  |                           | NotFnd       | <3.6              | 3.6             | U     |                           | 33  |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| PCB-178                     |  |                           | 25.66        | 920               | 4.8             |       |                           | 33  |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| PCB-175                     |  |                           | 25.98        | <23               | 4.6             | J,R   | 23                        | 33  |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| PCB-187                     |  |                           | 26.12        | 4690              | 4.3             |       |                           | 33  |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| PCB-182                     |  |                           | 26.26        | <6.1              | 4.2             | J,R   | 6.1                       | 33  |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| PCB-183                     |  |                           | 26.43        | 843               | 4.2             |       |                           | 33  |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| PCB-185                     |  |                           | 26.53        | 35.6              | 5.0             |       |                           | 33  |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| PCB-174                     |  |                           | 26.60        | 130               | 4.4             |       |                           | 33  |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| PCB-177                     |  |                           | 26.83        | 2880              | 4.7             |       |                           | 33  |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| PCB-181                     |  |                           | 27.02        | <18               | 4.9             | J,R   | 18                        | 33  |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |
| PCB-171/173                 |  |                           |              |                   |                 |       |                           |     | 27.17        | <330              | 37                                                                      | J,R                       | 330              | 330 |              |                   |                 |                  |     |
| PCB-172                     |  |                           | 27.93        | 923               | 4.7             |       |                           | 33  |              |                   |                                                                         |                           |                  |     |              |                   |                 |                  |     |

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| Sample Analysis Report |  |
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|                    |                         |                  |           |       |                                                                                                     |
|--------------------|-------------------------|------------------|-----------|-------|-----------------------------------------------------------------------------------------------------|
| <b>Sample Name</b> | <b>PLOT 11 - 4 JARS</b> | Sampling Date    | 25-May-24 | g dwt | <div>Approved:</div> <div><i>S.Sarhaddi</i></div> <div>--e-signature--</div> <div>14-Aug-2024</div> |
| ALS Sample ID      | L2756078-2              | Extraction Date  | 6-Jul-24  |       |                                                                                                     |
| Analysis Method    | EPA 1668C               | Sample Size      | 3         |       |                                                                                                     |
| Analysis Type      | Sample                  | Percent Moisture | 70.9%     |       |                                                                                                     |
| Sample Matrix      | Tissue                  | Split Ratio      | 4         |       |                                                                                                     |

| Run Information     | Run 1                     | Run 2                     | Run 3                     |
|---------------------|---------------------------|---------------------------|---------------------------|
| Filename            | 6-240714A12               | 6-240718A24               | 6-240810A11               |
| Run Date            | 14-Jul-24 15:39           | 19-Jul-24 06:17           | 10-Aug-24 21:37           |
| Final Volume        | 25 ul                     | 25 uL                     | 10 uL                     |
| Dilution Factor     | 1                         | 10                        | 1                         |
| Analysis Units      | pg/g dwt                  | pg/g dwt                  | pg/g dwt                  |
| Instrument - Column | HRMS-6 SPBOCTYL-281311-07 | HRMS-6 SPBOCTYL-283388-03 | HRMS-6 SPBOCTYL-283388-03 |

| Target Analytes      |  |              |                   |                 |        |                  |      | Reference Values |       |                   |                 |       |                  |     |              |       |                   |                 |       |                  |     |
|----------------------|--|--------------|-------------------|-----------------|--------|------------------|------|------------------|-------|-------------------|-----------------|-------|------------------|-----|--------------|-------|-------------------|-----------------|-------|------------------|-----|
| TEF<br>(WHO 2005)    |  | Ret.<br>Time | Conc.<br>pg/g dwt | EDL<br>pg/g dwt | Flags  | EMPC<br>pg/g dwt | LQL  | Ret.<br>Time     |       | Conc.<br>pg/g dwt | EDL<br>pg/g dwt | Flags | EMPC<br>pg/g dwt | LQL | Ret.<br>Time |       | Conc.<br>pg/g dwt | EDL<br>pg/g dwt | Flags | EMPC<br>pg/g dwt | LQL |
| PCB-192              |  |              | 28.10             | <4.0            |        | U                | 0.49 | 33               |       |                   |                 |       |                  |     |              |       |                   |                 |       |                  |     |
| PCB-180/193          |  |              | 28.27             | 17300           |        |                  |      | 33               |       |                   |                 |       |                  |     |              |       |                   |                 |       |                  |     |
| PCB-191              |  |              | 28.46             | <25             |        | J,R              | 25   | 33               |       |                   |                 |       |                  |     |              |       |                   |                 |       |                  |     |
| PCB-170              |  |              | 28.97             | 2600            |        |                  |      | 33               |       |                   |                 |       |                  |     |              |       |                   |                 |       |                  |     |
| PCB-190              |  |              | 29.23             | 2490            |        |                  |      | 33               |       |                   |                 |       |                  |     |              |       |                   |                 |       |                  |     |
| PCB-189              |  | 0.00003      | 30.54             | 680             |        |                  |      | 33               |       |                   |                 |       |                  |     |              |       |                   |                 |       |                  |     |
| PCB-202              |  |              | 26.85             | 498             |        |                  |      | 33               |       |                   |                 |       |                  |     |              |       |                   |                 |       |                  |     |
| PCB-201              |  |              | 27.32             | 58.7            |        |                  |      | 33               |       |                   |                 |       |                  |     |              |       |                   |                 |       |                  |     |
| PCB-204              |  |              | NotFnd            | <1.5            |        | U                |      | 33               |       |                   |                 |       |                  |     |              |       |                   |                 |       |                  |     |
| PCB-197              |  |              | 27.78             | 42.2            |        |                  |      | 33               |       |                   |                 |       |                  |     |              |       |                   |                 |       |                  |     |
| PCB-200              |  |              | 27.89             | <4.2            |        | J,R              | 4.2  | 33               |       |                   |                 |       |                  |     |              |       |                   |                 |       |                  |     |
| PCB-198/199          |  |              | 29.27             | 6780            |        |                  |      | 33               |       |                   |                 |       |                  |     |              |       |                   |                 |       |                  |     |
| PCB-196              |  |              | 29.61             | 391             |        |                  |      | 33               |       |                   |                 |       |                  |     |              |       |                   |                 |       |                  |     |
| PCB-203              |  |              | 29.70             | 3760            |        |                  |      | 33               |       |                   |                 |       |                  |     |              |       |                   |                 |       |                  |     |
| PCB-195              |  |              | 30.46             | 1540            |        |                  |      | 33               |       |                   |                 |       |                  |     |              |       |                   |                 |       |                  |     |
| PCB-194              |  |              | 31.71             | 8750            |        |                  |      | 33               |       |                   |                 |       |                  |     |              |       |                   |                 |       |                  |     |
| PCB-205              |  |              | 32.00             | 532             |        |                  |      | 33               |       |                   |                 |       |                  |     |              |       |                   |                 |       |                  |     |
| PCB-208              |  |              |                   |                 |        |                  |      |                  | 30.30 | 200               | 42              | J     |                  | 330 |              |       |                   |                 |       |                  |     |
| PCB-207              |  |              | 30.76             | 64.0            |        |                  |      | 33               |       |                   |                 |       |                  |     |              |       |                   |                 |       |                  |     |
| PCB-206              |  |              | 33.12             | 1830            |        |                  |      | 33               |       |                   |                 |       |                  |     |              |       |                   |                 |       |                  |     |
| PCB-209              |  |              | 34.31             | 299             |        |                  |      | 33               |       |                   |                 |       |                  |     |              |       |                   |                 |       |                  |     |
| Extraction Standards |  | pg           | Time              | % Rec           | Limits |                  |      |                  | Time  | % Rec             | Limits          |       |                  |     | Time         | % Rec | Limits            |                 |       |                  |     |
| 13C12-PCB-001        |  | 4000         | 9.39              | 35              | 5-145  |                  |      |                  |       |                   |                 |       |                  |     |              |       |                   |                 |       |                  |     |
| 13C12-PCB-003        |  | 4000         | 10.97             | 41              | 5-145  |                  |      |                  |       |                   |                 |       |                  |     |              |       |                   |                 |       |                  |     |
| 13C12-PCB-004        |  | 4000         | 11.13             | 49              | 5-145  |                  |      |                  |       |                   |                 |       |                  |     |              |       |                   |                 |       |                  |     |
| 13C12-PCB-015        |  | 4000         | 14.88             | 47              | 5-145  |                  |      |                  |       |                   |                 |       |                  |     |              |       |                   |                 |       |                  |     |
| 13C12-PCB-019        |  | 4000         | 13.16             | 51              | 5-145  |                  |      |                  |       |                   |                 |       |                  |     |              |       |                   |                 |       |                  |     |
| 13C12-PCB-037        |  | 4000         | 18.83             | 63              | 5-145  |                  |      |                  |       |                   |                 |       |                  |     |              |       |                   |                 |       |                  |     |
| 13C12-PCB-054        |  | 4000         | 15.05             | 57              | 5-145  |                  |      |                  |       |                   |                 |       |                  |     |              |       |                   |                 |       |                  |     |
| 13C12-PCB-081        |  | 4000         | 22.41             | 71              | 10-145 |                  |      |                  |       |                   |                 |       |                  |     |              |       |                   |                 |       |                  |     |
| 13C12-PCB-077        |  | 4000         | 22.70             | 68              | 10-145 |                  |      |                  |       |                   |                 |       |                  |     |              |       |                   |                 |       |                  |     |
| 13C12-PCB-104        |  | 4000         | 18.09             | 67              | 10-145 |                  |      |                  |       |                   |                 |       |                  |     |              |       |                   |                 |       |                  |     |
| 13C12-PCB-123        |  | 4000         | 23.67             | 75              | 10-145 |                  |      |                  |       |                   |                 |       |                  |     |              |       |                   |                 |       |                  |     |
| 13C12-PCB-118        |  | 4000         | 23.84             | 86              | 10-145 |                  |      |                  |       |                   |                 |       |                  |     |              |       |                   |                 |       |                  |     |
| 13C12-PCB-114        |  | 4000         | 24.15             | 74              | 10-145 |                  |      |                  |       |                   |                 |       |                  |     |              |       |                   |                 |       |                  |     |
| 13C12-PCB-105        |  | 4000         | 24.51             | 76              | 10-145 |                  |      |                  |       |                   |                 |       |                  |     |              |       |                   |                 |       |                  |     |
| 13C12-PCB-126        |  | 4000         |                   |                 |        |                  |      |                  |       |                   |                 |       |                  |     |              |       |                   |                 |       |                  |     |
| 13C12-PCB-155        |  | 4000         | 21.06             | 75              | 10-145 |                  |      |                  |       |                   |                 |       |                  |     |              |       |                   |                 |       |                  |     |
| 13C12-PCB-167        |  | 4000         | 26.96             | 72              | 10-145 |                  |      |                  |       |                   |                 |       |                  |     |              |       |                   |                 |       |                  |     |
| 13C12-PCB-156/157    |  | 8000         | 27.61             | 69              | 10-145 |                  |      |                  |       |                   |                 |       |                  |     |              |       |                   |                 |       |                  |     |
| 13C12-PCB-169        |  | 4000         |                   |                 |        |                  |      |                  |       |                   |                 |       |                  |     |              |       |                   |                 |       |                  |     |
| 13C12-PCB-188        |  | 4000         | 24.06             | 66              | 10-145 |                  |      |                  |       |                   |                 |       |                  |     |              |       |                   |                 |       |                  |     |
| 13C12-PCB-189        |  | 4000         | 30.54             | 71              | 10-145 |                  |      |                  |       |                   |                 |       |                  |     |              |       |                   |                 |       |                  |     |
| 13C12-PCB-202        |  | 4000         | 26.84             | 73              | 10-145 |                  |      |                  |       |                   |                 |       |                  |     |              |       |                   |                 |       |                  |     |
| 13C12-PCB-205        |  | 4000         | 31.99             | 72              | 10-145 |                  |      |                  |       |                   |                 |       |                  |     |              |       |                   |                 |       |                  |     |
| 13C12-PCB-208        |  | 4000         |                   |                 |        |                  |      |                  | 30.29 | 70                | 10-145          |       |                  |     |              |       |                   |                 |       |                  |     |
| 13C12-PCB-206        |  | 4000         | 33.11             | 77              | 10-145 |                  |      |                  |       |                   |                 |       |                  |     |              |       |                   |                 |       |                  |     |
| 13C12-PCB-209        |  | 4000         | 34.28             | 83              | 10-145 |                  |      |                  |       |                   |                 |       |                  |     |              |       |                   |                 |       |                  |     |
| Cleanup Standards    |  |              |                   |                 |        |                  |      |                  |       |                   |                 |       |                  |     |              |       |                   |                 |       |                  |     |
| 13C12-PCB-028        |  | 4000         | 16.56             | 51              | 5-145  |                  |      |                  |       |                   |                 |       |                  |     |              |       |                   |                 |       |                  |     |
| 13C12-PCB-111        |  | 4000         | 22.59             | 65              | 10-145 |                  |      |                  |       |                   |                 |       |                  |     |              |       |                   |                 |       |                  |     |
| 13C12-PCB-178        |  | 4000         | 25.64             | 66              | 10-145 |                  |      |                  |       |                   |                 |       |                  |     |              |       |                   |                 |       |                  |     |

| ALS Life Sciences              |  |                                                                                                                                                   |      |          |          |       |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |     |  |
|--------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|----------|-------|----------|---------------------------|-------|-----------|----------|-------------------------------------------------------------------------|------|---------------------------------|-----|----------|----------|-------|----------|-----|--|
| Sample Analysis Report         |  |                                                                                                                                                   |      |          |          |       |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |     |  |
| Sample Name                    |  | PLOT 11 - 4 JARS                                                                                                                                  |      |          |          |       |          | Sampling Date             |       | 25-May-24 |          | <div>Approved:<br/>S.Sarhaddi<br/>--e-signature--<br/>14-Aug-2024</div> |      |                                 |     |          |          |       |          |     |  |
| ALS Sample ID                  |  | L2756078-2                                                                                                                                        |      |          |          |       |          | Extraction Date           |       | 6-Jul-24  |          |                                                                         |      |                                 |     |          |          |       |          |     |  |
| Analysis Method                |  | EPA 1668C                                                                                                                                         |      |          |          |       |          | Sample Size               |       | 3g dwt    |          |                                                                         |      |                                 |     |          |          |       |          |     |  |
| Analysis Type                  |  | Sample                                                                                                                                            |      |          |          |       |          | Percent Moisture          |       | 70.9%     |          |                                                                         |      |                                 |     |          |          |       |          |     |  |
| Sample Matrix                  |  | Tissue                                                                                                                                            |      |          |          |       |          | Split Ratio               |       | 4         |          |                                                                         |      |                                 |     |          |          |       |          |     |  |
| Run Information                |  | Run 1                                                                                                                                             |      |          |          |       |          | Run 2                     |       |           |          |                                                                         |      | Run 3                           |     |          |          |       |          |     |  |
| Filename                       |  | 6-240714A12                                                                                                                                       |      |          |          |       |          | 6-240718A24               |       |           |          |                                                                         |      | 6-240810A11                     |     |          |          |       |          |     |  |
| Run Date                       |  | 14-Jul-24 15:39                                                                                                                                   |      |          |          |       |          | 19-Jul-24 06:17           |       |           |          |                                                                         |      | 10-Aug-24 21:37                 |     |          |          |       |          |     |  |
| Final Volume                   |  | 25 ul                                                                                                                                             |      |          |          |       |          | 25 uL                     |       |           |          |                                                                         |      | 10 uL                           |     |          |          |       |          |     |  |
| Dilution Factor                |  | 1                                                                                                                                                 |      |          |          |       |          | 10                        |       |           |          |                                                                         |      | 1                               |     |          |          |       |          |     |  |
| Analysis Units                 |  | pg/g dwt                                                                                                                                          |      |          |          |       |          | pg/g dwt                  |       |           |          |                                                                         |      | pg/g dwt                        |     |          |          |       |          |     |  |
| Instrument - Column            |  | HRMS-6 SPBOCTYL-281311-07                                                                                                                         |      |          |          |       |          | HRMS-6 SPBOCTYL-283388-03 |       |           |          |                                                                         |      | HRMS-6 SPBOCTYL-283388-03       |     |          |          |       |          |     |  |
| Target Analytes                |  | TEF                                                                                                                                               | Ret. | Conc.    | EDL      | EMPC  |          | Ret.                      | Conc. | EDL       | EMPC     |                                                                         | Ret. | Conc.                           | EDL | EMPC     |          |       |          |     |  |
|                                |  | (WHO 2005)                                                                                                                                        | Time | pg/g dwt | pg/g dwt | Flags | pg/g dwt |                           | LQL   | pg/g dwt  | pg/g dwt | Flags                                                                   |      | pg/g dwt                        | LQL | pg/g dwt | pg/g dwt | Flags | pg/g dwt | LQL |  |
| Homologue Group Totals         |  |                                                                                                                                                   |      | pg/g dwt | pg/g dwt | Flags |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |     |  |
| Total MonoCB                   |  |                                                                                                                                                   |      | 9.13     | 1.3      | J     |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |     |  |
| Total DiCB                     |  |                                                                                                                                                   |      | 118      | 7.0      | J     |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |     |  |
| Total TriCB                    |  |                                                                                                                                                   |      | 126      | 3.0      | J     |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |     |  |
| Total TetraCB                  |  |                                                                                                                                                   |      | 932      | 0.90     | J     |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |     |  |
| Total PentaCB                  |  |                                                                                                                                                   |      | 10200    | 0.95     | J     |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |     |  |
| Total HexaCB                   |  |                                                                                                                                                   |      | 16900    | 0.46     | J     |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |     |  |
| Total HeptaCB                  |  |                                                                                                                                                   |      | 33900    | 2.8      | J     |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |     |  |
| Total OctaCB                   |  |                                                                                                                                                   |      | 22400    | 1.4      | J     |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |     |  |
| Total NonaCB                   |  |                                                                                                                                                   |      | 2090     | 3.5      | J     |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |     |  |
| DecaCB                         |  |                                                                                                                                                   |      | 299      | 0.57     | J     |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |     |  |
| Total PCB                      |  |                                                                                                                                                   |      | 86900    |          | J     |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |     |  |
| Toxic Equivalency - (WHO 2005) |  |                                                                                                                                                   |      |          |          |       |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |     |  |
| Lower Bound PCB TEQ            |  |                                                                                                                                                   |      | 38.1     |          |       |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |     |  |
| Mid Point PCB TEQ              |  |                                                                                                                                                   |      | 38.1     |          |       |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |     |  |
| Upper Bound PCB TEQ            |  |                                                                                                                                                   |      | 38.1     |          |       |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |     |  |
| EDL                            |  | Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.                                   |      |          |          |       |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |     |  |
| TEF                            |  | Indicates the Toxic Equivalency Factor                                                                                                            |      |          |          |       |          |                           |       |           |          | TEQ                                                                     |      | Indicates the Toxic Equivalency |     |          |          |       |          |     |  |
| LQL                            |  | Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.                                |      |          |          |       |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |     |  |
| M                              |  | Indicates that a peak has been manually integrated.                                                                                               |      |          |          |       |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |     |  |
| U                              |  | Indicates that this compound was not detected above the EDL.                                                                                      |      |          |          |       |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |     |  |
| J                              |  | Indicates that the analyte was positively identified. The associated numerical result is an estimate.                                             |      |          |          |       |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |     |  |
| R                              |  | Indicates that the ion abundance ratio for this analyte did not meet the control limit. The reported value represents an estimated concentration. |      |          |          |       |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |     |  |
| EMPC                           |  | Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure                          |      |          |          |       |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |     |  |



| ALS Life Sciences      |  |                           |              |                   |                  |       |                  |     |                                                           |
|------------------------|--|---------------------------|--------------|-------------------|------------------|-------|------------------|-----|-----------------------------------------------------------|
| Sample Analysis Report |  |                           |              |                   |                  |       |                  |     |                                                           |
| Sample Name            |  | PLOT 70 - 3 JARS          |              |                   | Sampling Date    |       | 25-May-24        |     | Approved:<br>S.Sarhaddi<br>--e-signature--<br>14-Aug-2024 |
| ALS Sample ID          |  | L2756078-3                |              |                   | Extraction Date  |       | 6-Jul-24         |     |                                                           |
| Analysis Method        |  | EPA 1668C                 |              |                   | Sample Size      |       | 2.93 g dwt       |     |                                                           |
| Analysis Type          |  | Sample                    |              |                   | Percent Moisture |       | 70.8%            |     |                                                           |
| Sample Matrix          |  | Tissue                    |              |                   | Split Ratio      |       | 4                |     |                                                           |
| Run Information        |  | Run 1                     |              |                   |                  |       |                  |     |                                                           |
| Filename               |  | 6-240714A13               |              |                   |                  |       |                  |     |                                                           |
| Run Date               |  | 14-Jul-24 16:26           |              |                   |                  |       |                  |     |                                                           |
| Final Volume           |  | 25 ul                     |              |                   |                  |       |                  |     |                                                           |
| Dilution Factor        |  | 1                         |              |                   |                  |       |                  |     |                                                           |
| Analysis Units         |  | pg/g dwt                  |              |                   |                  |       |                  |     |                                                           |
| Instrument - Column    |  | HRMS-6 SPBOCTYL-281311-07 |              |                   |                  |       |                  |     |                                                           |
|                        |  |                           |              |                   |                  |       |                  |     |                                                           |
| Target Analytes        |  | TEF<br>(WHO 2005)         | Ret.<br>Time | Conc.<br>pg/g dwt | EDL<br>pg/g dwt  | Flags | EMPC<br>pg/g dwt | LQL |                                                           |
| PCB-001                |  |                           | NotFnd       | <1.5              | 1.5              | U     |                  | 34  |                                                           |
| PCB-002                |  |                           | NotFnd       | <1.7              | 1.7              | U     |                  | 34  |                                                           |
| PCB-003                |  |                           | 11.00        | <1.9              | 1.9              | J,R   | 1.9              | 34  |                                                           |
| PCB-004                |  |                           | NotFnd       | <12               | 12               | U     |                  | 34  |                                                           |
| PCB-010                |  |                           | NotFnd       | <6.8              | 6.8              | U     |                  | 34  |                                                           |
| PCB-009                |  |                           | NotFnd       | <7.2              | 7.2              | U     |                  | 34  |                                                           |
| PCB-007                |  |                           | NotFnd       | <7.3              | 7.3              | U     |                  | 34  |                                                           |
| PCB-006                |  |                           | NotFnd       | <7.2              | 7.2              | U     |                  | 34  |                                                           |
| PCB-005                |  |                           | NotFnd       | <8.4              | 8.4              | U     |                  | 34  |                                                           |
| PCB-008                |  |                           | NotFnd       | <6.3              | 6.3              | U     |                  | 34  |                                                           |
| PCB-014                |  |                           | NotFnd       | <9.5              | 9.5              | U     |                  | 34  |                                                           |
| PCB-011                |  |                           | 14.49        | 111               | 9.6              |       |                  | 34  |                                                           |
| PCB-012/013            |  |                           | NotFnd       | <9.4              | 9.4              | U     |                  | 34  |                                                           |
| PCB-015                |  |                           | NotFnd       | <10               | 10               | U     |                  | 34  |                                                           |
| PCB-019                |  |                           | NotFnd       | <3.3              | 3.3              | U     |                  | 34  |                                                           |
| PCB-018/030            |  |                           | 14.28        | 5.86              | 2.5              | M,J   |                  | 34  |                                                           |
| PCB-017                |  |                           | 14.53        | <2.9              | 2.9              | U     | 1.2              | 34  |                                                           |
| PCB-027                |  |                           | NotFnd       | <2.2              | 2.2              | U     |                  | 34  |                                                           |
| PCB-024                |  |                           | NotFnd       | <2.5              | 2.5              | U     |                  | 34  |                                                           |
| PCB-016                |  |                           | NotFnd       | <3.3              | 3.3              | U     |                  | 34  |                                                           |
| PCB-032                |  |                           | NotFnd       | <2.0              | 2.0              | U     |                  | 34  |                                                           |
| PCB-034                |  |                           | NotFnd       | <3.3              | 3.3              | U     |                  | 34  |                                                           |
| PCB-023                |  |                           | NotFnd       | <3.2              | 3.2              | U     |                  | 34  |                                                           |
| PCB-026/029            |  |                           | NotFnd       | <3.0              | 3.0              | U     |                  | 34  |                                                           |
| PCB-025                |  |                           | NotFnd       | <3.0              | 3.0              | U     |                  | 34  |                                                           |
| PCB-031                |  |                           | 16.41        | <6.8              | 2.9              | J,R   | 6.8              | 34  |                                                           |
| PCB-020/028            |  |                           | 16.58        | 31.6              | 3.1              | J     |                  | 34  |                                                           |
| PCB-021/033            |  |                           | NotFnd       | <3.1              | 3.1              | U     |                  | 34  |                                                           |
| PCB-022                |  |                           | 16.97        | <3.5              | 3.5              | M,U   | 3.4              | 34  |                                                           |
| PCB-036                |  |                           | NotFnd       | <2.9              | 2.9              | U     |                  | 34  |                                                           |
| PCB-039                |  |                           | NotFnd       | <3.5              | 3.5              | U     |                  | 34  |                                                           |
| PCB-038                |  |                           | NotFnd       | <3.3              | 3.3              | U     |                  | 34  |                                                           |
| PCB-035                |  |                           | 18.63        | <3.5              | 3.5              | U     |                  | 34  |                                                           |
| PCB-037                |  |                           | 18.85        | <3.5              | 3.5              | M,U   | 2.8              | 34  |                                                           |
| PCB-054                |  |                           | NotFnd       | <1.2              | 1.2              | U     |                  | 34  |                                                           |
| PCB-050/053            |  |                           | NotFnd       | <3.0              | 3.0              | U     |                  | 34  |                                                           |
| PCB-045/051            |  |                           | 16.68        | <3.1              | 3.1              | U     | 2.2              | 34  |                                                           |
| PCB-046                |  |                           | NotFnd       | <3.4              | 3.4              | U     |                  | 34  |                                                           |
| PCB-052                |  |                           | 17.57        | <17               | 3.4              | J,R   | 17               | 34  |                                                           |
| PCB-073                |  |                           | NotFnd       | <2.1              | 2.1              | U     |                  | 34  |                                                           |
| PCB-043                |  |                           | NotFnd       | <3.3              | 3.3              | U     |                  | 34  |                                                           |
| PCB-049/069            |  |                           | 17.83        | <2.6              | 2.6              | U     | 1.1              | 34  |                                                           |
| PCB-048                |  |                           | NotFnd       | <3.1              | 3.1              | U     |                  | 34  |                                                           |
| PCB-044/047/065        |  |                           | 18.14        | 17.1              | 2.7              | J     |                  | 34  |                                                           |
| PCB-059/062/075        |  |                           | NotFnd       | <2.2              | 2.2              | U     |                  | 34  |                                                           |
| PCB-042                |  |                           | NotFnd       | <3.4              | 3.4              | U     |                  | 34  |                                                           |
| PCB-040/041/071        |  |                           | NotFnd       | <3.1              | 3.1              | U     |                  | 34  |                                                           |
| PCB-064                |  |                           | 18.84        | <3.2              | 2.3              | M,J,R | 3.2              | 34  |                                                           |
| PCB-072                |  |                           | NotFnd       | <1.9              | 1.9              | U     |                  | 34  |                                                           |
| PCB-068                |  |                           | NotFnd       | <1.8              | 1.8              | U     |                  | 34  |                                                           |
| PCB-057                |  |                           | NotFnd       | <2.0              | 2.0              | U     |                  | 34  |                                                           |
| PCB-058                |  |                           | NotFnd       | <1.9              | 1.9              | U     |                  | 34  |                                                           |
| PCB-067                |  |                           | NotFnd       | <1.7              | 1.7              | U     |                  | 34  |                                                           |
| PCB-063                |  |                           | NotFnd       | <1.8              | 1.8              | U     |                  | 34  |                                                           |
| PCB-061/070/074/076    |  |                           | 20.21        | <26               | 1.8              | J,R   | 26               | 34  |                                                           |
| PCB-066                |  |                           | 20.36        | <8.2              | 1.8              | J,R   | 8.2              | 34  |                                                           |
| PCB-055                |  |                           | NotFnd       | <2.0              | 2.0              | U     |                  | 34  |                                                           |
| PCB-056                |  |                           | NotFnd       | <1.8              | 1.8              | U     |                  | 34  |                                                           |
| PCB-060                |  |                           | 20.87        | 6.67              | 2.0              | M,J   |                  | 34  |                                                           |
| PCB-080                |  |                           | NotFnd       | <1.6              | 1.6              | U     |                  | 34  |                                                           |
| PCB-079                |  |                           | 21.87        | <1.7              | 1.7              | U     |                  | 34  |                                                           |
| PCB-078                |  |                           | NotFnd       | <2.1              | 2.1              | U     |                  | 34  |                                                           |
| PCB-081                |  | 0.0003                    | NotFnd       | <2.1              | 2.1              | U     |                  | 34  |                                                           |
| PCB-077                |  | 0.0001                    | 22.72        | <4.0              | 2.2              | J,R   | 4.0              | 34  |                                                           |
| PCB-104                |  |                           | NotFnd       | <2.0              | 2.0              | U     |                  | 34  |                                                           |
| PCB-096                |  |                           | NotFnd       | <2.7              | 2.7              | U     |                  | 34  |                                                           |
| PCB-103                |  |                           | NotFnd       | <3.3              | 3.3              | U     |                  | 34  |                                                           |
| PCB-094                |  |                           | NotFnd       | <3.6              | 3.6              | U     |                  | 34  |                                                           |
| PCB-095                |  |                           | NotFnd       | <4.1              | 4.1              | U     |                  | 34  |                                                           |
| PCB-093/098/100/102    |  |                           | NotFnd       | <3.1              | 3.1              | U     |                  | 34  |                                                           |

| ALS Life Sciences           |                           |              |                   |                 |       |                                                                         |     |
|-----------------------------|---------------------------|--------------|-------------------|-----------------|-------|-------------------------------------------------------------------------|-----|
| Sample Analysis Report      |                           |              |                   |                 |       |                                                                         |     |
| Sample Name                 | PLOT 70 - 3 JARS          |              | Sampling Date     | 25-May-24       |       | <div>Approved:<br/>S.Sarhaddi<br/>--e-signature--<br/>14-Aug-2024</div> |     |
| ALS Sample ID               | L2756078-3                |              | Extraction Date   | 6-Jul-24        |       |                                                                         |     |
| Analysis Method             | EPA 1668C                 |              | Sample Size       | 2.93 g dwt      |       |                                                                         |     |
| Analysis Type               | Sample                    |              | Percent Moisture  | 70.8%           |       |                                                                         |     |
| Sample Matrix               | Tissue                    |              | Split Ratio       | 4               |       |                                                                         |     |
| Run Information             |                           |              |                   |                 |       |                                                                         |     |
| Run 1                       |                           |              |                   |                 |       |                                                                         |     |
| Filename                    | 6-240714A13               |              |                   |                 |       |                                                                         |     |
| Run Date                    | 14-Jul-24 16:26           |              |                   |                 |       |                                                                         |     |
| Final Volume                | 25 ul                     |              |                   |                 |       |                                                                         |     |
| Dilution Factor             | 1                         |              |                   |                 |       |                                                                         |     |
| Analysis Units              | pg/g dwt                  |              |                   |                 |       |                                                                         |     |
| Instrument - Column         | HRMS-6 SPBOCTYL-281311-07 |              |                   |                 |       |                                                                         |     |
|                             |                           |              |                   |                 |       |                                                                         |     |
| Target Analytes             | TEF<br>(WHO 2005)         | Ret.<br>Time | Conc.<br>pg/g dwt | EDL<br>pg/g dwt | Flags | EMPC<br>pg/g dwt                                                        | LQL |
| PCB-088/091                 |                           | NotFnd       | <3.4              | 3.4             | U     |                                                                         | 34  |
| PCB-084                     |                           | 20.35        | <3.5              | 3.5             | U     | 0.52                                                                    | 34  |
| PCB-089                     |                           | NotFnd       | <4.2              | 4.2             | U     |                                                                         | 34  |
| PCB-121                     |                           | NotFnd       | <2.4              | 2.4             | U     |                                                                         | 34  |
| PCB-092                     |                           | NotFnd       | <3.8              | 3.8             | U     |                                                                         | 34  |
| PCB-090/101/113             |                           | 21.23        | <8.8              | 2.7             | J,R   | 8.8                                                                     | 34  |
| PCB-083/099                 |                           | 21.55        | 25.3              | 3.6             | J     |                                                                         | 34  |
| PCB-112                     |                           | NotFnd       | <2.2              | 2.2             | U     |                                                                         | 34  |
| PCB-086/087/097/109/119/125 |                           | 21.84        | <2.6              | 2.6             | U     | 1.7                                                                     | 34  |
| PCB-085/110/115/116/117     |                           | 22.33        | <8.8              | 2.5             | M,J,R | 8.8                                                                     | 34  |
| PCB-082                     |                           | NotFnd       | <4.3              | 4.3             | U     |                                                                         | 34  |
| PCB-111                     |                           | NotFnd       | <2.3              | 2.3             | U     |                                                                         | 34  |
| PCB-120                     |                           | NotFnd       | <2.2              | 2.2             | U     |                                                                         | 34  |
| PCB-108/124                 |                           | NotFnd       | <2.9              | 2.9             | U     |                                                                         | 34  |
| PCB-107                     |                           | 23.63        | <3.3              | 2.7             | J,R   | 3.3                                                                     | 34  |
| PCB-123                     | 0.00003                   | NotFnd       | <3.3              | 3.3             | U     |                                                                         | 34  |
| PCB-106                     |                           | NotFnd       | <3.1              | 3.1             | U     |                                                                         | 34  |
| PCB-118                     | 0.00003                   | 23.86        | 129               | 2.7             |       |                                                                         | 34  |
| PCB-122                     |                           | NotFnd       | <3.8              | 3.8             | U     |                                                                         | 34  |
| PCB-114                     | 0.00003                   | NotFnd       | <3.4              | 3.4             | U     |                                                                         | 34  |
| PCB-105                     | 0.00003                   | 24.52        | <21               | 3.1             | J,R   | 21                                                                      | 34  |
| PCB-127                     |                           | NotFnd       | <3.1              | 3.1             | U     |                                                                         | 34  |
| PCB-126                     | 0.1                       | 26.12        | 7.55              | 3.6             | M,J   |                                                                         | 34  |
| PCB-155                     |                           | NotFnd       | <0.96             | 0.96            | U     |                                                                         | 34  |
| PCB-152                     |                           | NotFnd       | <1.9              | 1.9             | U     |                                                                         | 34  |
| PCB-150                     |                           | NotFnd       | <1.5              | 1.5             | U     |                                                                         | 34  |
| PCB-136                     |                           | 21.59        | <1.7              | 1.7             | U     |                                                                         | 34  |
| PCB-145                     |                           | NotFnd       | <1.7              | 1.7             | U     |                                                                         | 34  |
| PCB-148                     |                           | NotFnd       | <2.3              | 2.3             | U     |                                                                         | 34  |
| PCB-135/151                 |                           | 22.78        | <3.2              | 2.6             | J,R   | 3.2                                                                     | 34  |
| PCB-154                     |                           | NotFnd       | <1.5              | 1.5             | U     |                                                                         | 34  |
| PCB-144                     |                           | NotFnd       | <2.3              | 2.3             | U     |                                                                         | 34  |
| PCB-147/149                 |                           | 23.25        | <7.5              | 2.6             | J,R   | 7.5                                                                     | 34  |
| PCB-134/143                 |                           | NotFnd       | <3.3              | 3.3             | U     |                                                                         | 34  |
| PCB-139/140                 |                           | NotFnd       | <2.6              | 2.6             | U     |                                                                         | 34  |
| PCB-131                     |                           | NotFnd       | <3.3              | 3.3             | U     |                                                                         | 34  |
| PCB-142                     |                           | NotFnd       | <3.3              | 3.3             | U     |                                                                         | 34  |
| PCB-132                     |                           | 23.95        | <3.1              | 3.1             | U     | 0.73                                                                    | 34  |
| PCB-133                     |                           | 24.10        | <2.9              | 2.9             | U     | 0.91                                                                    | 34  |
| PCB-165                     |                           | NotFnd       | <2.1              | 2.1             | U     |                                                                         | 34  |
| PCB-146                     |                           | 24.45        | <8.5              | 2.5             | J,R   | 8.5                                                                     | 34  |
| PCB-161                     |                           | NotFnd       | <1.9              | 1.9             | U     |                                                                         | 34  |
| PCB-153/168                 |                           | 24.76        | 124               | 2.0             |       |                                                                         | 34  |
| PCB-141                     |                           | 24.92        | <2.6              | 2.6             | U     | 1.9                                                                     | 34  |
| PCB-130                     |                           | 25.14        | <3.3              | 3.1             | J,R   | 3.3                                                                     | 34  |
| PCB-137/164                 |                           | 25.23        | 2.79              | 2.3             | M,J   |                                                                         | 34  |
| PCB-129/138/163             |                           | 25.46        | 111               | 2.6             |       |                                                                         | 34  |
| PCB-160                     |                           | NotFnd       | <2.1              | 2.1             | U     |                                                                         | 34  |
| PCB-158                     |                           | 25.67        | <5.3              | 1.7             | J,R   | 5.3                                                                     | 34  |
| PCB-128/166                 |                           | 26.18        | 9.98              | 2.2             | M,J   |                                                                         | 34  |
| PCB-159                     |                           | NotFnd       | <1.9              | 1.9             | U     |                                                                         | 34  |
| PCB-162                     |                           | 26.73        | <2.0              | 2.0             | U     | 0.83                                                                    | 34  |
| PCB-167                     | 0.00003                   | 26.97        | <11               | 1.8             | J,R   | 11                                                                      | 34  |
| PCB-156/157                 | 0.00003                   | 27.60        | 26.7              | 2.7             | J     |                                                                         | 68  |
| PCB-169                     | 0.03                      | 29.28        | <2.6              | 2.0             | J,R   | 2.6                                                                     | 34  |
| PCB-188                     |                           | NotFnd       | <1.1              | 1.1             | U     |                                                                         | 34  |
| PCB-179                     |                           | 24.34        | <1.3              | 1.3             | U     |                                                                         | 34  |
| PCB-184                     |                           | NotFnd       | <1.2              | 1.2             | U     |                                                                         | 34  |
| PCB-176                     |                           | NotFnd       | <1.3              | 1.3             | U     |                                                                         | 34  |
| PCB-186                     |                           | NotFnd       | <1.4              | 1.4             | U     |                                                                         | 34  |
| PCB-178                     |                           | 25.66        | <18               | 1.9             | J,R   | 18                                                                      | 34  |
| PCB-175                     |                           | 25.97        | <1.8              | 1.8             | U     |                                                                         | 34  |
| PCB-187                     |                           | 26.12        | 70.9              | 1.6             |       |                                                                         | 34  |
| PCB-182                     |                           | 26.27        | <1.6              | 1.6             | U     | 0.42                                                                    | 34  |
| PCB-183                     |                           | 26.43        | <15               | 1.6             | J,R   | 15                                                                      | 34  |
| PCB-185                     |                           | NotFnd       | <1.9              | 1.9             | U     |                                                                         | 34  |
| PCB-174                     |                           | 26.60        | <1.7              | 1.7             | U     | 1.1                                                                     | 34  |
| PCB-177                     |                           | 26.84        | <31               | 1.8             | J,R   | 31                                                                      | 34  |
| PCB-181                     |                           | NotFnd       | <1.9              | 1.9             | U     |                                                                         | 34  |
| PCB-171/173                 |                           | 27.15        | <5.6              | 1.8             | J,R   | 5.6                                                                     | 34  |
| PCB-172                     |                           | 27.94        | <15               | 1.8             | J,R   | 15                                                                      | 34  |



| ALS Life Sciences      |  |                           |              |                   |                  |       |                  |     |                                                                         |
|------------------------|--|---------------------------|--------------|-------------------|------------------|-------|------------------|-----|-------------------------------------------------------------------------|
| Sample Analysis Report |  |                           |              |                   |                  |       |                  |     |                                                                         |
| Sample Name            |  | PLOT 70 - 3 JARS          |              |                   | Sampling Date    |       | 25-May-24        |     | <div>Approved:<br/>S.Sarhaddi<br/>--e-signature--<br/>14-Aug-2024</div> |
| ALS Sample ID          |  | L2756078-3                |              |                   | Extraction Date  |       | 6-Jul-24         |     |                                                                         |
| Analysis Method        |  | EPA 1668C                 |              |                   | Sample Size      |       | 2.93 g dwt       |     |                                                                         |
| Analysis Type          |  | Sample                    |              |                   | Percent Moisture |       | 70.8%            |     |                                                                         |
| Sample Matrix          |  | Tissue                    |              |                   | Split Ratio      |       | 4                |     |                                                                         |
| Run Information        |  | Run 1                     |              |                   |                  |       |                  |     |                                                                         |
| Filename               |  | 6-240714A13               |              |                   |                  |       |                  |     |                                                                         |
| Run Date               |  | 14-Jul-24 16:26           |              |                   |                  |       |                  |     |                                                                         |
| Final Volume           |  | 25 ul                     |              |                   |                  |       |                  |     |                                                                         |
| Dilution Factor        |  | 1                         |              |                   |                  |       |                  |     |                                                                         |
| Analysis Units         |  | pg/g dwt                  |              |                   |                  |       |                  |     |                                                                         |
| Instrument - Column    |  | HRMS-6 SPBOCTYL-281311-07 |              |                   |                  |       |                  |     |                                                                         |
|                        |  |                           |              |                   |                  |       |                  |     |                                                                         |
| Target Analytes        |  | TEF<br>(WHO 2005)         | Ret.<br>Time | Conc.<br>pg/g dwt | EDL<br>pg/g dwt  | Flags | EMPC<br>pg/g dwt | LQL |                                                                         |
| PCB-192                |  |                           | NotFnd       | <1.5              | 1.5              | U     |                  | 34  |                                                                         |
| PCB-180/193            |  |                           | 28.27        | 183               | 1.5              |       |                  | 34  |                                                                         |
| PCB-191                |  |                           | 28.45        | <1.3              | 1.3              | U     | 1.3              | 34  |                                                                         |
| PCB-170                |  |                           | 28.97        | 32.3              | 1.9              | J     |                  | 34  |                                                                         |
| PCB-190                |  |                           | 29.23        | 25.6              | 1.2              | J     |                  | 34  |                                                                         |
| PCB-189                |  | 0.00003                   | 30.55        | 10.2              | 1.4              | J     |                  | 34  |                                                                         |
| PCB-202                |  |                           | 26.85        | 16.5              | 0.72             | J     |                  | 34  |                                                                         |
| PCB-201                |  |                           | 27.32        | <0.80             | 0.80             | U     | 0.74             | 34  |                                                                         |
| PCB-204                |  |                           | NotFnd       | <0.79             | 0.79             | U     |                  | 34  |                                                                         |
| PCB-197                |  |                           | 27.78        | <1.6              | 0.87             | M,J,R | 1.6              | 34  |                                                                         |
| PCB-200                |  |                           | 27.86        | <0.87             | 0.87             | U     | 0.63             | 34  |                                                                         |
| PCB-198/199            |  |                           | 29.27        | <94               | 1.2              | R     | 94               | 34  |                                                                         |
| PCB-196                |  |                           | 29.60        | 8.73              | 1.2              | J     |                  | 34  |                                                                         |
| PCB-203                |  |                           | 29.70        | 44.3              | 1.1              |       |                  | 34  |                                                                         |
| PCB-195                |  |                           | 30.44        | 17.0              | 1.4              | J     |                  | 34  |                                                                         |
| PCB-194                |  |                           | 31.70        | 87.7              | 1.4              |       |                  | 34  |                                                                         |
| PCB-205                |  |                           | 32.00        | 8.22              | 1.3              | J     |                  | 34  |                                                                         |
| PCB-208                |  |                           | 30.27        | 16.6              | 1.7              | J     |                  | 34  |                                                                         |
| PCB-207                |  |                           | 30.76        | <5.7              | 1.7              | J,R   | 5.7              | 34  |                                                                         |
| PCB-206                |  |                           | 33.12        | 66.0              | 2.6              |       |                  | 34  |                                                                         |
| PCB-209                |  |                           | 34.30        | 51.3              | 0.69             |       |                  | 34  |                                                                         |
|                        |  |                           |              |                   |                  |       |                  |     |                                                                         |
| Extraction Standards   |  | pg                        | Time         | % Rec             | Limits           |       |                  |     |                                                                         |
| 13C12-PCB-001          |  | 4000                      | 9.39         | 41                | 5-145            |       |                  |     |                                                                         |
| 13C12-PCB-003          |  | 4000                      | 10.97        | 44                | 5-145            |       |                  |     |                                                                         |
| 13C12-PCB-004          |  | 4000                      | 11.13        | 56                | 5-145            |       |                  |     |                                                                         |
| 13C12-PCB-015          |  | 4000                      | 14.87        | 55                | 5-145            |       |                  |     |                                                                         |
| 13C12-PCB-019          |  | 4000                      | 13.16        | 58                | 5-145            |       |                  |     |                                                                         |
| 13C12-PCB-037          |  | 4000                      | 18.84        | 70                | 5-145            |       |                  |     |                                                                         |
| 13C12-PCB-054          |  | 4000                      | 15.05        | 67                | 5-145            |       |                  |     |                                                                         |
| 13C12-PCB-081          |  | 4000                      | 22.41        | 81                | 10-145           |       |                  |     |                                                                         |
| 13C12-PCB-077          |  | 4000                      | 22.71        | 80                | 10-145           |       |                  |     |                                                                         |
| 13C12-PCB-104          |  | 4000                      | 18.09        | 72                | 10-145           |       |                  |     |                                                                         |
| 13C12-PCB-123          |  | 4000                      | 23.67        | 88                | 10-145           |       |                  |     |                                                                         |
| 13C12-PCB-118          |  | 4000                      | 23.84        | 98                | 10-145           |       |                  |     |                                                                         |
| 13C12-PCB-114          |  | 4000                      | 24.15        | 85                | 10-145           |       |                  |     |                                                                         |
| 13C12-PCB-105          |  | 4000                      | 24.51        | 89                | 10-145           |       |                  |     |                                                                         |
| 13C12-PCB-126          |  | 4000                      | 26.09        | 89                | 10-145           |       |                  |     |                                                                         |
| 13C12-PCB-155          |  | 4000                      | 21.07        | 93                | 10-145           |       |                  |     |                                                                         |
| 13C12-PCB-167          |  | 4000                      | 26.96        | 92                | 10-145           |       |                  |     |                                                                         |
| 13C12-PCB-156/157      |  | 8000                      | 27.61        | 88                | 10-145           |       |                  |     |                                                                         |
| 13C12-PCB-169          |  | 4000                      | 29.27        | 92                | 10-145           |       |                  |     |                                                                         |
| 13C12-PCB-188          |  | 4000                      | 24.07        | 89                | 10-145           |       |                  |     |                                                                         |
| 13C12-PCB-189          |  | 4000                      | 30.52        | 90                | 10-145           |       |                  |     |                                                                         |
| 13C12-PCB-202          |  | 4000                      | 26.84        | 93                | 10-145           |       |                  |     |                                                                         |
| 13C12-PCB-205          |  | 4000                      | 31.98        | 97                | 10-145           |       |                  |     |                                                                         |
| 13C12-PCB-208          |  | 4000                      | 30.26        | 84                | 10-145           |       |                  |     |                                                                         |
| 13C12-PCB-206          |  | 4000                      | 33.11        | 97                | 10-145           |       |                  |     |                                                                         |
| 13C12-PCB-209          |  | 4000                      | 34.28        | 103               | 10-145           |       |                  |     |                                                                         |
|                        |  |                           |              |                   |                  |       |                  |     |                                                                         |
| Cleanup Standards      |  |                           |              |                   |                  |       |                  |     |                                                                         |
| 13C12-PCB-028          |  | 4000                      | 16.56        | 59                | 5-145            |       |                  |     |                                                                         |
| 13C12-PCB-111          |  | 4000                      | 22.59        | 73                | 10-145           |       |                  |     |                                                                         |
| 13C12-PCB-178          |  | 4000                      | 25.64        | 74                | 10-145           |       |                  |     |                                                                         |

| ALS Life Sciences              |  |                                                                                                                                                   |              |                   |                  |       |                  |                                 |                                                           |
|--------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------|------------------|-------|------------------|---------------------------------|-----------------------------------------------------------|
| Sample Analysis Report         |  |                                                                                                                                                   |              |                   |                  |       |                  |                                 |                                                           |
| Sample Name                    |  | PLOT 70 - 3 JARS                                                                                                                                  |              |                   | Sampling Date    |       | 25-May-24        |                                 | Approved:<br>S.Sarhaddi<br>--e-signature--<br>14-Aug-2024 |
| ALS Sample ID                  |  | L2756078-3                                                                                                                                        |              |                   | Extraction Date  |       | 6-Jul-24         |                                 |                                                           |
| Analysis Method                |  | EPA 1668C                                                                                                                                         |              |                   | Sample Size      |       | 2.93 g dwt       |                                 |                                                           |
| Analysis Type                  |  | Sample                                                                                                                                            |              |                   | Percent Moisture |       | 70.8%            |                                 |                                                           |
| Sample Matrix                  |  | Tissue                                                                                                                                            |              |                   | Split Ratio      |       | 4                |                                 |                                                           |
| Run Information                |  | Run 1                                                                                                                                             |              |                   |                  |       |                  |                                 |                                                           |
| Filename                       |  | 6-240714A13                                                                                                                                       |              |                   |                  |       |                  |                                 |                                                           |
| Run Date                       |  | 14-Jul-24 16:26                                                                                                                                   |              |                   |                  |       |                  |                                 |                                                           |
| Final Volume                   |  | 25 ul                                                                                                                                             |              |                   |                  |       |                  |                                 |                                                           |
| Dilution Factor                |  | 1                                                                                                                                                 |              |                   |                  |       |                  |                                 |                                                           |
| Analysis Units                 |  | pg/g dwt                                                                                                                                          |              |                   |                  |       |                  |                                 |                                                           |
| Instrument - Column            |  | HRMS-6 SPBOCTYL-281311-07                                                                                                                         |              |                   |                  |       |                  |                                 |                                                           |
|                                |  |                                                                                                                                                   |              |                   |                  |       |                  |                                 |                                                           |
| Target Analytes                |  | TEF<br>(WHO 2005)                                                                                                                                 | Ret.<br>Time | Conc.<br>pg/g dwt | EDL<br>pg/g dwt  | Flags | EMPC<br>pg/g dwt | LQL                             |                                                           |
|                                |  |                                                                                                                                                   |              |                   |                  |       |                  |                                 |                                                           |
| Homologue Group Totals         |  |                                                                                                                                                   |              | pg/g dwt          | pg/g dwt         | Flags |                  | LQL                             |                                                           |
| Total MonoCB                   |  |                                                                                                                                                   |              | <1.5              | 1.5              | U     |                  | 140                             |                                                           |
| Total DiCB                     |  |                                                                                                                                                   |              | 111               | 6.3              | J     |                  | 270                             |                                                           |
| Total TriCB                    |  |                                                                                                                                                   |              | 44.3              | 2.0              | J     |                  | 270                             |                                                           |
| Total TetraCB                  |  |                                                                                                                                                   |              | 82.2              | 1.2              | J     |                  | 550                             |                                                           |
| Total PentaCB                  |  |                                                                                                                                                   |              | 204               | 2.0              | J     |                  | 550                             |                                                           |
| Total HexaCB                   |  |                                                                                                                                                   |              | 316               | 0.96             | J     |                  | 550                             |                                                           |
| Total HeptaCB                  |  |                                                                                                                                                   |              | 407               | 1.1              | J     |                  | 270                             |                                                           |
| Total OctaCB                   |  |                                                                                                                                                   |              | 278               | 0.72             | J     |                  | 270                             |                                                           |
| Total NonaCB                   |  |                                                                                                                                                   |              | 88.3              | 1.7              | J     |                  | 140                             |                                                           |
| DecaCB                         |  |                                                                                                                                                   |              | 51.3              | 0.69             | J     |                  | 140                             |                                                           |
| Total PCB                      |  |                                                                                                                                                   |              | 1580              |                  | J     |                  | 1100                            |                                                           |
|                                |  |                                                                                                                                                   |              |                   |                  |       |                  |                                 |                                                           |
| Toxic Equivalency - (WHO 2005) |  |                                                                                                                                                   |              |                   |                  |       |                  |                                 |                                                           |
| Lower Bound PCB TEQ            |  |                                                                                                                                                   |              | 0.760             |                  |       |                  |                                 |                                                           |
| Mid Point PCB TEQ              |  |                                                                                                                                                   |              | 0.840             |                  |       |                  |                                 |                                                           |
| Upper Bound PCB TEQ            |  |                                                                                                                                                   |              | 0.840             |                  |       |                  |                                 |                                                           |
|                                |  |                                                                                                                                                   |              |                   |                  |       |                  |                                 |                                                           |
| EDL                            |  | Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.                                   |              |                   |                  |       |                  |                                 |                                                           |
| TEF                            |  | Indicates the Toxic Equivalency Factor                                                                                                            |              |                   |                  | TEQ   |                  | Indicates the Toxic Equivalency |                                                           |
| LQL                            |  | Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.                                |              |                   |                  |       |                  |                                 |                                                           |
| M                              |  | Indicates that a peak has been manually integrated.                                                                                               |              |                   |                  |       |                  |                                 |                                                           |
| U                              |  | Indicates that this compound was not detected above the EDL.                                                                                      |              |                   |                  |       |                  |                                 |                                                           |
|                                |  |                                                                                                                                                   |              |                   |                  |       |                  |                                 |                                                           |
| J                              |  | Indicates that the analyte was positively identified. The associated numerical result is an estimate.                                             |              |                   |                  |       |                  |                                 |                                                           |
| R                              |  | Indicates that the ion abundance ratio for this analyte did not meet the control limit. The reported value represents an estimated concentration. |              |                   |                  |       |                  |                                 |                                                           |
|                                |  |                                                                                                                                                   |              |                   |                  |       |                  |                                 |                                                           |
| EMPC                           |  | Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure                          |              |                   |                  |       |                  |                                 |                                                           |

| ALS Life Sciences      |  |                           |              |                   |                  |       |                  |     |                                                           |
|------------------------|--|---------------------------|--------------|-------------------|------------------|-------|------------------|-----|-----------------------------------------------------------|
| Sample Analysis Report |  |                           |              |                   |                  |       |                  |     |                                                           |
| Sample Name            |  | PLOT 71 - 5 JARS          |              |                   | Sampling Date    |       | 25-May-24        |     | Approved:<br>S.Sarhaddi<br>--e-signature--<br>14-Aug-2024 |
| ALS Sample ID          |  | L2756078-4                |              |                   | Extraction Date  |       | 6-Jul-24         |     |                                                           |
| Analysis Method        |  | EPA 1668C                 |              |                   | Sample Size      |       | 2.77 g dwt       |     |                                                           |
| Analysis Type          |  | Sample                    |              |                   | Percent Moisture |       | 72.6%            |     |                                                           |
| Sample Matrix          |  | Tissue                    |              |                   | Split Ratio      |       | 4                |     |                                                           |
| Run Information        |  | Run 1                     |              |                   |                  |       |                  |     |                                                           |
| Filename               |  | 6-240714A14               |              |                   |                  |       |                  |     |                                                           |
| Run Date               |  | 14-Jul-24 17:12           |              |                   |                  |       |                  |     |                                                           |
| Final Volume           |  | 25 ul                     |              |                   |                  |       |                  |     |                                                           |
| Dilution Factor        |  | 1                         |              |                   |                  |       |                  |     |                                                           |
| Analysis Units         |  | pg/g dwt                  |              |                   |                  |       |                  |     |                                                           |
| Instrument - Column    |  | HRMS-6 SPBOCTYL-281311-07 |              |                   |                  |       |                  |     |                                                           |
|                        |  |                           |              |                   |                  |       |                  |     |                                                           |
| Target Analytes        |  | TEF<br>(WHO 2005)         | Ret.<br>Time | Conc.<br>pg/g dwt | EDL<br>pg/g dwt  | Flags | EMPC<br>pg/g dwt | LQL |                                                           |
| PCB-001                |  |                           | NotFnd       | <1.4              | 1.4              | U     |                  | 36  |                                                           |
| PCB-002                |  |                           | NotFnd       | <1.6              | 1.6              | U     |                  | 36  |                                                           |
| PCB-003                |  |                           | 10.96        | <2.3              | 1.8              | M,J,R | 2.3              | 36  |                                                           |
| PCB-004                |  |                           | NotFnd       | <14               | 14               | U     |                  | 36  |                                                           |
| PCB-010                |  |                           | NotFnd       | <8.0              | 8.0              | U     |                  | 36  |                                                           |
| PCB-009                |  |                           | NotFnd       | <8.5              | 8.5              | U     |                  | 36  |                                                           |
| PCB-007                |  |                           | NotFnd       | <8.6              | 8.6              | U     |                  | 36  |                                                           |
| PCB-006                |  |                           | NotFnd       | <8.4              | 8.4              | U     |                  | 36  |                                                           |
| PCB-005                |  |                           | NotFnd       | <9.8              | 9.8              | U     |                  | 36  |                                                           |
| PCB-008                |  |                           | NotFnd       | <7.4              | 7.4              | U     |                  | 36  |                                                           |
| PCB-014                |  |                           | NotFnd       | <9.6              | 9.6              | U     |                  | 36  |                                                           |
| PCB-011                |  |                           | 14.49        | 143               | 9.7              |       |                  | 36  |                                                           |
| PCB-012/013            |  |                           | NotFnd       | <9.5              | 9.5              | U     |                  | 36  |                                                           |
| PCB-015                |  |                           | NotFnd       | <11               | 11               | U     |                  | 36  |                                                           |
| PCB-019                |  |                           | NotFnd       | <3.5              | 3.5              | U     |                  | 36  |                                                           |
| PCB-018/030            |  |                           | 14.27        | 4.67              | 3.3              | M,J   |                  | 36  |                                                           |
| PCB-017                |  |                           | 14.52        | <3.8              | 3.8              | M,U   | 2.5              | 36  |                                                           |
| PCB-027                |  |                           | NotFnd       | <2.9              | 2.9              | U     |                  | 36  |                                                           |
| PCB-024                |  |                           | NotFnd       | <3.2              | 3.2              | U     |                  | 36  |                                                           |
| PCB-016                |  |                           | 14.84        | <4.2              | 4.2              | M,U   | 4.1              | 36  |                                                           |
| PCB-032                |  |                           | NotFnd       | <2.6              | 2.6              | U     |                  | 36  |                                                           |
| PCB-034                |  |                           | NotFnd       | <3.7              | 3.7              | U     |                  | 36  |                                                           |
| PCB-023                |  |                           | NotFnd       | <3.6              | 3.6              | U     |                  | 36  |                                                           |
| PCB-026/029            |  |                           | NotFnd       | <3.4              | 3.4              | U     |                  | 36  |                                                           |
| PCB-025                |  |                           | NotFnd       | <3.4              | 3.4              | U     |                  | 36  |                                                           |
| PCB-031                |  |                           | 16.42        | <6.8              | 3.3              | J,R   | 6.8              | 36  |                                                           |
| PCB-020/028            |  |                           | 16.58        | <15               | 3.5              | J,R   | 15               | 36  |                                                           |
| PCB-021/033            |  |                           | 16.73        | <4.2              | 3.5              | M,J,R | 4.2              | 36  |                                                           |
| PCB-022                |  |                           | 16.97        | <3.9              | 3.9              | M,U   | 2.6              | 36  |                                                           |
| PCB-036                |  |                           | NotFnd       | <3.3              | 3.3              | U     |                  | 36  |                                                           |
| PCB-039                |  |                           | NotFnd       | <4.0              | 4.0              | U     |                  | 36  |                                                           |
| PCB-038                |  |                           | NotFnd       | <3.8              | 3.8              | U     |                  | 36  |                                                           |
| PCB-035                |  |                           | NotFnd       | <3.9              | 3.9              | U     |                  | 36  |                                                           |
| PCB-037                |  |                           | NotFnd       | <4.0              | 4.0              | U     |                  | 36  |                                                           |
| PCB-054                |  |                           | NotFnd       | <1.6              | 1.6              | U     |                  | 36  |                                                           |
| PCB-050/053            |  |                           | NotFnd       | <3.7              | 3.7              | U     |                  | 36  |                                                           |
| PCB-045/051            |  |                           | NotFnd       | <3.9              | 3.9              | U     |                  | 36  |                                                           |
| PCB-046                |  |                           | NotFnd       | <4.2              | 4.2              | U     |                  | 36  |                                                           |
| PCB-052                |  |                           | 17.56        | <14               | 4.2              | J,R   | 14               | 36  |                                                           |
| PCB-073                |  |                           | NotFnd       | <2.7              | 2.7              | U     |                  | 36  |                                                           |
| PCB-043                |  |                           | NotFnd       | <4.2              | 4.2              | U     |                  | 36  |                                                           |
| PCB-049/069            |  |                           | 17.85        | <3.3              | 3.3              | M,J,R | 3.3              | 36  |                                                           |
| PCB-048                |  |                           | NotFnd       | <3.8              | 3.8              | U     |                  | 36  |                                                           |
| PCB-044/047/065        |  |                           | 18.14        | <11               | 3.3              | J,R   | 11               | 36  |                                                           |
| PCB-059/062/075        |  |                           | NotFnd       | <2.8              | 2.8              | U     |                  | 36  |                                                           |
| PCB-042                |  |                           | NotFnd       | <4.2              | 4.2              | U     |                  | 36  |                                                           |
| PCB-040/041/071        |  |                           | NotFnd       | <3.9              | 3.9              | U     |                  | 36  |                                                           |
| PCB-064                |  |                           | NotFnd       | <2.8              | 2.8              | M,U   |                  | 36  |                                                           |
| PCB-072                |  |                           | NotFnd       | <1.5              | 1.5              | U     |                  | 36  |                                                           |
| PCB-068                |  |                           | NotFnd       | <1.4              | 1.4              | U     |                  | 36  |                                                           |
| PCB-057                |  |                           | NotFnd       | <1.5              | 1.5              | U     |                  | 36  |                                                           |
| PCB-058                |  |                           | NotFnd       | <1.5              | 1.5              | U     |                  | 36  |                                                           |
| PCB-067                |  |                           | NotFnd       | <1.3              | 1.3              | U     |                  | 36  |                                                           |
| PCB-063                |  |                           | NotFnd       | <1.4              | 1.4              | U     |                  | 36  |                                                           |
| PCB-061/070/074/076    |  |                           | 20.21        | 19.7              | 1.4              | J     |                  | 36  |                                                           |
| PCB-066                |  |                           | 20.37        | <4.2              | 1.4              | J,R   | 4.2              | 36  |                                                           |
| PCB-055                |  |                           | NotFnd       | <1.6              | 1.6              | U     |                  | 36  |                                                           |
| PCB-056                |  |                           | 20.77        | <1.4              | 1.4              | U     | 0.74             | 36  |                                                           |
| PCB-060                |  |                           | 20.89        | 5.13              | 1.5              | M,J   |                  | 36  |                                                           |
| PCB-080                |  |                           | NotFnd       | <1.2              | 1.2              | U     |                  | 36  |                                                           |
| PCB-079                |  |                           | NotFnd       | <1.3              | 1.3              | U     |                  | 36  |                                                           |
| PCB-078                |  |                           | NotFnd       | <1.7              | 1.7              | U     |                  | 36  |                                                           |
| PCB-081                |  | 0.0003                    | NotFnd       | <1.7              | 1.7              | U     |                  | 36  |                                                           |
| PCB-077                |  | 0.0001                    | 22.71        | <2.9              | 1.8              | M,J,R | 2.9              | 36  |                                                           |
| PCB-104                |  |                           | NotFnd       | <2.2              | 2.2              | U     |                  | 36  |                                                           |
| PCB-096                |  |                           | NotFnd       | <3.2              | 3.2              | U     |                  | 36  |                                                           |
| PCB-103                |  |                           | NotFnd       | <3.3              | 3.3              | U     |                  | 36  |                                                           |
| PCB-094                |  |                           | NotFnd       | <3.5              | 3.5              | U     |                  | 36  |                                                           |
| PCB-095                |  |                           | NotFnd       | <4.1              | 4.1              | U     |                  | 36  |                                                           |
| PCB-093/098/100/102    |  |                           | NotFnd       | <3.1              | 3.1              | U     |                  | 36  |                                                           |



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|-----------------------------|---------------------------|--------------|-------------------|------------------|-----------|------------------|--------------------------------------------------------------------------|
| Sample Analysis Report      |                           |              |                   |                  |           |                  |                                                                          |
| Sample Name                 | PLOT 71 - 5 JARS          |              |                   | Sampling Date    | 25-May-24 |                  | <div>Approved:<br/>S. Sarhaddi<br/>--e-signature--<br/>14-Aug-2024</div> |
| ALS Sample ID               | L2756078-4                |              |                   | Extraction Date  | 6-Jul-24  |                  |                                                                          |
| Analysis Method             | EPA 1668C                 |              |                   | Sample Size      | 2.77      | g dwt            |                                                                          |
| Analysis Type               | Sample                    |              |                   | Percent Moisture | 72.6%     |                  |                                                                          |
| Sample Matrix               | Tissue                    |              |                   | Split Ratio      | 4         |                  |                                                                          |
| Run Information             |                           |              |                   |                  |           |                  |                                                                          |
| Run 1                       |                           |              |                   |                  |           |                  |                                                                          |
| Filename                    | 6-240714A14               |              |                   |                  |           |                  |                                                                          |
| Run Date                    | 14-Jul-24 17:12           |              |                   |                  |           |                  |                                                                          |
| Final Volume                | 25 ul                     |              |                   |                  |           |                  |                                                                          |
| Dilution Factor             | 1                         |              |                   |                  |           |                  |                                                                          |
| Analysis Units              | pg/g dwt                  |              |                   |                  |           |                  |                                                                          |
| Instrument - Column         | HRMS-6 SPBOCTYL-281311-07 |              |                   |                  |           |                  |                                                                          |
| Target Analytes             | TEF<br>(WHO 2005)         | Ret.<br>Time | Conc.<br>pg/g dwt | EDL<br>pg/g dwt  | Flags     | EMPC<br>pg/g dwt | LQL                                                                      |
| PCB-088/091                 |                           | NotFnd       | <3.3              | 3.3              | U         |                  | 36                                                                       |
| PCB-084                     |                           | NotFnd       | <3.5              | 3.5              | U         |                  | 36                                                                       |
| PCB-089                     |                           | NotFnd       | <4.2              | 4.2              | U         |                  | 36                                                                       |
| PCB-121                     |                           | NotFnd       | <2.3              | 2.3              | U         |                  | 36                                                                       |
| PCB-092                     |                           | NotFnd       | <3.7              | 3.7              | U         |                  | 36                                                                       |
| PCB-090/101/113             |                           | 21.22        | <3.9              | 2.7              | M,J,R     | 3.9              | 36                                                                       |
| PCB-083/099                 |                           | 21.55        | 10.9              | 3.5              | J         |                  | 36                                                                       |
| PCB-112                     |                           | NotFnd       | <2.2              | 2.2              | U         |                  | 36                                                                       |
| PCB-086/087/097/109/119/125 |                           | NotFnd       | <2.6              | 2.6              | U         |                  | 36                                                                       |
| PCB-085/110/115/116/117     |                           | 22.33        | 7.50              | 2.5              | M,J       |                  | 36                                                                       |
| PCB-082                     |                           | NotFnd       | <4.3              | 4.3              | U         |                  | 36                                                                       |
| PCB-111                     |                           | NotFnd       | <2.3              | 2.3              | U         |                  | 36                                                                       |
| PCB-120                     |                           | NotFnd       | <2.2              | 2.2              | U         |                  | 36                                                                       |
| PCB-108/124                 |                           | NotFnd       | <2.7              | 2.7              | U         |                  | 36                                                                       |
| PCB-107                     |                           | NotFnd       | <2.6              | 2.6              | U         |                  | 36                                                                       |
| PCB-123                     | 0.00003                   | NotFnd       | <3.3              | 3.3              | U         |                  | 36                                                                       |
| PCB-106                     |                           | NotFnd       | <3.0              | 3.0              | U         |                  | 36                                                                       |
| PCB-118                     | 0.00003                   | 23.84        | <74               | 2.4              | R         | 74               | 36                                                                       |
| PCB-122                     |                           | NotFnd       | <3.6              | 3.6              | U         |                  | 36                                                                       |
| PCB-114                     | 0.00003                   | NotFnd       | <3.2              | 3.2              | U         |                  | 36                                                                       |
| PCB-105                     | 0.00003                   | 24.52        | 14.4              | 3.0              | J         |                  | 36                                                                       |
| PCB-127                     |                           | NotFnd       | <2.9              | 2.9              | U         |                  | 36                                                                       |
| PCB-126                     | 0.1                       | 26.12        | <5.0              | 3.5              | M,J,R     | 5.0              | 36                                                                       |
| PCB-155                     |                           | NotFnd       | <1.5              | 1.5              | U         |                  | 36                                                                       |
| PCB-152                     |                           | NotFnd       | <2.9              | 2.9              | U         |                  | 36                                                                       |
| PCB-150                     |                           | NotFnd       | <2.2              | 2.2              | U         |                  | 36                                                                       |
| PCB-136                     |                           | NotFnd       | <2.6              | 2.6              | U         |                  | 36                                                                       |
| PCB-145                     |                           | NotFnd       | <2.5              | 2.5              | U         |                  | 36                                                                       |
| PCB-148                     |                           | NotFnd       | <3.5              | 3.5              | U         |                  | 36                                                                       |
| PCB-135/151                 |                           | NotFnd       | <4.0              | 4.0              | U         |                  | 36                                                                       |
| PCB-154                     |                           | NotFnd       | <2.2              | 2.2              | U         |                  | 36                                                                       |
| PCB-144                     |                           | NotFnd       | <3.5              | 3.5              | U         |                  | 36                                                                       |
| PCB-147/149                 |                           | 23.24        | <5.5              | 3.7              | J,R       | 5.5              | 36                                                                       |
| PCB-134/143                 |                           | NotFnd       | <4.7              | 4.7              | U         |                  | 36                                                                       |
| PCB-139/140                 |                           | NotFnd       | <3.7              | 3.7              | U         |                  | 36                                                                       |
| PCB-131                     |                           | NotFnd       | <4.7              | 4.7              | U         |                  | 36                                                                       |
| PCB-142                     |                           | NotFnd       | <4.7              | 4.7              | U         |                  | 36                                                                       |
| PCB-132                     |                           | NotFnd       | <4.4              | 4.4              | U         |                  | 36                                                                       |
| PCB-133                     |                           | NotFnd       | <4.2              | 4.2              | U         |                  | 36                                                                       |
| PCB-165                     |                           | NotFnd       | <3.0              | 3.0              | U         |                  | 36                                                                       |
| PCB-146                     |                           | 24.45        | <5.4              | 3.5              | J,R       | 5.4              | 36                                                                       |
| PCB-161                     |                           | NotFnd       | <2.6              | 2.6              | U         |                  | 36                                                                       |
| PCB-153/168                 |                           | 24.76        | 71.6              | 2.9              |           |                  | 36                                                                       |
| PCB-141                     |                           | NotFnd       | <3.7              | 3.7              | U         |                  | 36                                                                       |
| PCB-130                     |                           | 25.14        | <4.5              | 4.5              | U         | 1.5              | 36                                                                       |
| PCB-137/164                 |                           | NotFnd       | <3.3              | 3.3              | U         |                  | 36                                                                       |
| PCB-129/138/163             |                           | 25.46        | 62.9              | 3.7              |           |                  | 36                                                                       |
| PCB-160                     |                           | NotFnd       | <3.0              | 3.0              | U         |                  | 36                                                                       |
| PCB-158                     |                           | NotFnd       | <2.4              | 2.4              | U         |                  | 36                                                                       |
| PCB-128/166                 |                           | 26.18        | <4.5              | 3.2              | M,J,R     | 4.5              | 36                                                                       |
| PCB-159                     |                           | NotFnd       | <2.7              | 2.7              | U         |                  | 36                                                                       |
| PCB-162                     |                           | NotFnd       | <2.9              | 2.9              | U         |                  | 36                                                                       |
| PCB-167                     | 0.00003                   | 26.97        | <8.4              | 2.4              | J,R       | 8.4              | 36                                                                       |
| PCB-156/157                 | 0.00003                   | 27.60        | <12               | 3.8              | J,R       | 12               | 72                                                                       |
| PCB-169                     | 0.03                      | NotFnd       | <3.1              | 3.1              | U         |                  | 36                                                                       |
| PCB-188                     |                           | NotFnd       | <2.0              | 2.0              | U         |                  | 36                                                                       |
| PCB-179                     |                           | NotFnd       | <2.4              | 2.4              | U         |                  | 36                                                                       |
| PCB-184                     |                           | NotFnd       | <2.3              | 2.3              | U         |                  | 36                                                                       |
| PCB-176                     |                           | NotFnd       | <2.4              | 2.4              | U         |                  | 36                                                                       |
| PCB-186                     |                           | NotFnd       | <2.6              | 2.6              | U         |                  | 36                                                                       |
| PCB-178                     |                           | 25.64        | 11.0              | 3.5              | J         |                  | 36                                                                       |
| PCB-175                     |                           | NotFnd       | <3.4              | 3.4              | U         |                  | 36                                                                       |
| PCB-187                     |                           | 26.12        | 48.2              | 3.1              |           |                  | 36                                                                       |
| PCB-182                     |                           | NotFnd       | <3.1              | 3.1              | U         |                  | 36                                                                       |
| PCB-183                     |                           | 26.43        | <9.8              | 3.1              | J,R       | 9.8              | 36                                                                       |
| PCB-185                     |                           | NotFnd       | <3.6              | 3.6              | U         |                  | 36                                                                       |
| PCB-174                     |                           | 26.59        | <3.2              | 3.2              | U         | 1.9              | 36                                                                       |
| PCB-177                     |                           | 26.83        | <15               | 3.5              | J,R       | 15               | 36                                                                       |
| PCB-181                     |                           | NotFnd       | <3.6              | 3.6              | U         |                  | 36                                                                       |
| PCB-171/173                 |                           | NotFnd       | <3.5              | 3.5              | U         |                  | 36                                                                       |
| PCB-172                     |                           | 27.93        | <7.9              | 3.4              | J,R       | 7.9              | 36                                                                       |

| ALS Life Sciences      |                           |              |                   |                 |       |                                                                         |     |
|------------------------|---------------------------|--------------|-------------------|-----------------|-------|-------------------------------------------------------------------------|-----|
| Sample Analysis Report |                           |              |                   |                 |       |                                                                         |     |
| Sample Name            | PLOT 71 - 5 JARS          |              | Sampling Date     | 25-May-24       |       | <div>Approved:<br/>S.Sarhaddi<br/>--e-signature--<br/>14-Aug-2024</div> |     |
| ALS Sample ID          | L2756078-4                |              | Extraction Date   | 6-Jul-24        |       |                                                                         |     |
| Analysis Method        | EPA 1668C                 |              | Sample Size       | 2.77 g dwt      |       |                                                                         |     |
| Analysis Type          | Sample                    |              | Percent Moisture  | 72.6%           |       |                                                                         |     |
| Sample Matrix          | Tissue                    |              | Split Ratio       | 4               |       |                                                                         |     |
| Run Information        |                           |              |                   |                 |       |                                                                         |     |
| Run 1                  |                           |              |                   |                 |       |                                                                         |     |
| Filename               | 6-240714A14               |              |                   |                 |       |                                                                         |     |
| Run Date               | 14-Jul-24 17:12           |              |                   |                 |       |                                                                         |     |
| Final Volume           | 25 ul                     |              |                   |                 |       |                                                                         |     |
| Dilution Factor        | 1                         |              |                   |                 |       |                                                                         |     |
| Analysis Units         | pg/g dwt                  |              |                   |                 |       |                                                                         |     |
| Instrument - Column    | HRMS-6 SPBOCTYL-281311-07 |              |                   |                 |       |                                                                         |     |
|                        |                           |              |                   |                 |       |                                                                         |     |
| Target Analytes        | TEF<br>(WHO 2005)         | Ret.<br>Time | Conc.<br>pg/g dwt | EDL<br>pg/g dwt | Flags | EMPC<br>pg/g dwt                                                        | LQL |
| PCB-192                |                           | NotFnd       | <2.9              | 2.9             | U     |                                                                         | 36  |
| PCB-180/193            |                           | 28.25        | <91               | 2.9             | R     | 91                                                                      | 36  |
| PCB-191                |                           | NotFnd       | <2.5              | 2.5             | U     |                                                                         | 36  |
| PCB-170                |                           | 28.97        | 18.0              | 3.5             | J     |                                                                         | 36  |
| PCB-190                |                           | 29.23        | <17               | 2.2             | J,R   | 17                                                                      | 36  |
| PCB-189                | 0.00003                   | 30.54        | <6.4              | 1.8             | M,J,R | 6.4                                                                     | 36  |
| PCB-202                |                           | 26.85        | 5.94              | 1.1             | J     |                                                                         | 36  |
| PCB-201                |                           | NotFnd       | <1.3              | 1.3             | U     |                                                                         | 36  |
| PCB-204                |                           | NotFnd       | <1.3              | 1.3             | U     |                                                                         | 36  |
| PCB-197                |                           | 27.77        | <1.4              | 1.4             | U     | 1.2                                                                     | 36  |
| PCB-200                |                           | NotFnd       | <1.4              | 1.4             | U     |                                                                         | 36  |
| PCB-198/199            |                           | 29.27        | 58.9              | 1.9             |       |                                                                         | 36  |
| PCB-196                |                           | 29.60        | <2.8              | 1.9             | J,R   | 2.8                                                                     | 36  |
| PCB-203                |                           | 29.70        | <34               | 1.8             | J,R   | 34                                                                      | 36  |
| PCB-195                |                           | 30.44        | <5.7              | 2.8             | M,J,R | 5.7                                                                     | 36  |
| PCB-194                |                           | 31.70        | 55.9              | 2.7             |       |                                                                         | 36  |
| PCB-205                |                           | 31.99        | <5.3              | 2.7             | J,R   | 5.3                                                                     | 36  |
| PCB-208                |                           | 30.26        | <9.7              | 2.9             | M,J,R | 9.7                                                                     | 36  |
| PCB-207                |                           | 30.76        | <3.3              | 2.4             | M,J,R | 3.3                                                                     | 36  |
| PCB-206                |                           | 33.11        | 49.7              | 3.3             |       |                                                                         | 36  |
| PCB-209                |                           | 34.30        | 39.5              | 1.9             |       |                                                                         | 36  |
|                        |                           |              |                   |                 |       |                                                                         |     |
| Extraction Standards   | pg                        | Time         | % Rec             | Limits          |       |                                                                         |     |
| 13C12-PCB-001          | 4000                      | 9.39         | 44                | 5-145           |       |                                                                         |     |
| 13C12-PCB-003          | 4000                      | 10.96        | 47                | 5-145           |       |                                                                         |     |
| 13C12-PCB-004          | 4000                      | 11.13        | 55                | 5-145           |       |                                                                         |     |
| 13C12-PCB-015          | 4000                      | 14.87        | 54                | 5-145           |       |                                                                         |     |
| 13C12-PCB-019          | 4000                      | 13.16        | 58                | 5-145           |       |                                                                         |     |
| 13C12-PCB-037          | 4000                      | 18.83        | 60                | 5-145           |       |                                                                         |     |
| 13C12-PCB-054          | 4000                      | 15.04        | 55                | 5-145           |       |                                                                         |     |
| 13C12-PCB-081          | 4000                      | 22.40        | 74                | 10-145          |       |                                                                         |     |
| 13C12-PCB-077          | 4000                      | 22.71        | 73                | 10-145          |       |                                                                         |     |
| 13C12-PCB-104          | 4000                      | 18.09        | 73                | 10-145          |       |                                                                         |     |
| 13C12-PCB-123          | 4000                      | 23.67        | 77                | 10-145          |       |                                                                         |     |
| 13C12-PCB-118          | 4000                      | 23.84        | 94                | 10-145          |       |                                                                         |     |
| 13C12-PCB-114          | 4000                      | 24.15        | 75                | 10-145          |       |                                                                         |     |
| 13C12-PCB-105          | 4000                      | 24.51        | 81                | 10-145          |       |                                                                         |     |
| 13C12-PCB-126          | 4000                      | 26.09        | 79                | 10-145          |       |                                                                         |     |
| 13C12-PCB-155          | 4000                      | 21.06        | 78                | 10-145          |       |                                                                         |     |
| 13C12-PCB-167          | 4000                      | 26.96        | 80                | 10-145          |       |                                                                         |     |
| 13C12-PCB-156/157      | 8000                      | 27.60        | 76                | 10-145          |       |                                                                         |     |
| 13C12-PCB-169          | 4000                      | 29.26        | 76                | 10-145          |       |                                                                         |     |
| 13C12-PCB-188          | 4000                      | 24.06        | 75                | 10-145          |       |                                                                         |     |
| 13C12-PCB-189          | 4000                      | 30.52        | 74                | 10-145          |       |                                                                         |     |
| 13C12-PCB-202          | 4000                      | 26.84        | 79                | 10-145          |       |                                                                         |     |
| 13C12-PCB-205          | 4000                      | 31.98        | 78                | 10-145          |       |                                                                         |     |
| 13C12-PCB-208          | 4000                      | 30.26        | 52                | 10-145          |       |                                                                         |     |
| 13C12-PCB-206          | 4000                      | 33.11        | 81                | 10-145          |       |                                                                         |     |
| 13C12-PCB-209          | 4000                      | 34.28        | 90                | 10-145          |       |                                                                         |     |
|                        |                           |              |                   |                 |       |                                                                         |     |
| Cleanup Standards      |                           |              |                   |                 |       |                                                                         |     |
| 13C12-PCB-028          | 4000                      | 16.56        | 47                | 5-145           |       |                                                                         |     |
| 13C12-PCB-111          | 4000                      | 22.59        | 65                | 10-145          |       |                                                                         |     |
| 13C12-PCB-178          | 4000                      | 25.63        | 61                | 10-145          |       |                                                                         |     |

| ALS Life Sciences              |                   |                                                                                                                                                   |                   |                 |                  |                  |           |                                 |                                                                         |
|--------------------------------|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------|------------------|------------------|-----------|---------------------------------|-------------------------------------------------------------------------|
| Sample Analysis Report         |                   |                                                                                                                                                   |                   |                 |                  |                  |           |                                 |                                                                         |
| Sample Name                    |                   | PLOT 71 - 5 JARS                                                                                                                                  |                   |                 | Sampling Date    |                  | 25-May-24 |                                 | <div>Approved:<br/>S.Sarhaddi<br/>--e-signature--<br/>14-Aug-2024</div> |
| ALS Sample ID                  |                   | L2756078-4                                                                                                                                        |                   |                 | Extraction Date  |                  | 6-Jul-24  |                                 |                                                                         |
| Analysis Method                |                   | EPA 1668C                                                                                                                                         |                   |                 | Sample Size      |                  | 2.77g dwt |                                 |                                                                         |
| Analysis Type                  |                   | Sample                                                                                                                                            |                   |                 | Percent Moisture |                  | 72.6%     |                                 |                                                                         |
| Sample Matrix                  |                   | Tissue                                                                                                                                            |                   |                 | Split Ratio      |                  | 4         |                                 |                                                                         |
| Run Information                |                   | Run 1                                                                                                                                             |                   |                 |                  |                  |           |                                 |                                                                         |
| Filename                       |                   | 6-240714A14                                                                                                                                       |                   |                 |                  |                  |           |                                 |                                                                         |
| Run Date                       |                   | 14-Jul-24 17:12                                                                                                                                   |                   |                 |                  |                  |           |                                 |                                                                         |
| Final Volume                   |                   | 25ul                                                                                                                                              |                   |                 |                  |                  |           |                                 |                                                                         |
| Dilution Factor                |                   | 1                                                                                                                                                 |                   |                 |                  |                  |           |                                 |                                                                         |
| Analysis Units                 |                   | pg/g dwt                                                                                                                                          |                   |                 |                  |                  |           |                                 |                                                                         |
| Instrument - Column            |                   | HRMS-6 SPBOCTYL-281311-07                                                                                                                         |                   |                 |                  |                  |           |                                 |                                                                         |
|                                |                   |                                                                                                                                                   |                   |                 |                  |                  |           |                                 |                                                                         |
| Target Analytes                | TEF<br>(WHO 2005) | Ret.<br>Time                                                                                                                                      | Conc.<br>pg/g dwt | EDL<br>pg/g dwt | Flags            | EMPC<br>pg/g dwt | LQL       |                                 |                                                                         |
|                                |                   |                                                                                                                                                   |                   |                 |                  |                  |           |                                 |                                                                         |
| Homologue Group Totals         |                   |                                                                                                                                                   | pg/g dwt          | pg/g dwt        | Flags            |                  | LQL       |                                 |                                                                         |
| Total MonoCB                   |                   |                                                                                                                                                   | 2.30              | 1.4             | J                |                  | 140       |                                 |                                                                         |
| Total DiCB                     |                   |                                                                                                                                                   | 143               | 7.4             | J                |                  | 290       |                                 |                                                                         |
| Total TriCB                    |                   |                                                                                                                                                   | 30.7              | 2.6             | J                |                  | 290       |                                 |                                                                         |
| Total TetraCB                  |                   |                                                                                                                                                   | 56.9              | 1.2             | J                |                  | 580       |                                 |                                                                         |
| Total PentaCB                  |                   |                                                                                                                                                   | 116               | 2.2             | J                |                  | 580       |                                 |                                                                         |
| Total HexaCB                   |                   |                                                                                                                                                   | 170               | 1.5             | J                |                  | 580       |                                 |                                                                         |
| Total HeptaCB                  |                   |                                                                                                                                                   | 224               | 1.8             | J                |                  | 290       |                                 |                                                                         |
| Total OctaCB                   |                   |                                                                                                                                                   | 169               | 1.1             | J                |                  | 290       |                                 |                                                                         |
| Total NonaCB                   |                   |                                                                                                                                                   | 62.7              | 2.4             | J                |                  | 140       |                                 |                                                                         |
| DecaCB                         |                   |                                                                                                                                                   | 39.5              | 1.9             | J                |                  | 140       |                                 |                                                                         |
| Total PCB                      |                   |                                                                                                                                                   | 1010              |                 | J                |                  | 1200      |                                 |                                                                         |
|                                |                   |                                                                                                                                                   |                   |                 |                  |                  |           |                                 |                                                                         |
| Toxic Equivalency - (WHO 2005) |                   |                                                                                                                                                   |                   |                 |                  |                  |           |                                 |                                                                         |
| Lower Bound PCB TEQ            |                   |                                                                                                                                                   | 0.000432          |                 |                  |                  |           |                                 |                                                                         |
| Mid Point PCB TEQ              |                   |                                                                                                                                                   | 0.551             |                 |                  |                  |           |                                 |                                                                         |
| Upper Bound PCB TEQ            |                   |                                                                                                                                                   | 0.597             |                 |                  |                  |           |                                 |                                                                         |
|                                |                   |                                                                                                                                                   |                   |                 |                  |                  |           |                                 |                                                                         |
| EDL                            |                   | Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.                                   |                   |                 |                  |                  |           |                                 |                                                                         |
| TEF                            |                   | Indicates the Toxic Equivalency Factor                                                                                                            |                   |                 |                  | TEQ              |           | Indicates the Toxic Equivalency |                                                                         |
| LQL                            |                   | Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.                                |                   |                 |                  |                  |           |                                 |                                                                         |
| M                              |                   | Indicates that a peak has been manually integrated.                                                                                               |                   |                 |                  |                  |           |                                 |                                                                         |
| U                              |                   | Indicates that this compound was not detected above the EDL.                                                                                      |                   |                 |                  |                  |           |                                 |                                                                         |
|                                |                   |                                                                                                                                                   |                   |                 |                  |                  |           |                                 |                                                                         |
| J                              |                   | Indicates that the analyte was positively identified. The associated numerical result is an estimate.                                             |                   |                 |                  |                  |           |                                 |                                                                         |
| R                              |                   | Indicates that the ion abundance ratio for this analyte did not meet the control limit. The reported value represents an estimated concentration. |                   |                 |                  |                  |           |                                 |                                                                         |
|                                |                   |                                                                                                                                                   |                   |                 |                  |                  |           |                                 |                                                                         |
| EMPC                           |                   | Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure                          |                   |                 |                  |                  |           |                                 |                                                                         |



| ALS Life Sciences      |  |                           |              |                   |                 |                  |                  |           |                           |                                                                               |                 |       |                  |     |
|------------------------|--|---------------------------|--------------|-------------------|-----------------|------------------|------------------|-----------|---------------------------|-------------------------------------------------------------------------------|-----------------|-------|------------------|-----|
| Sample Analysis Report |  |                           |              |                   |                 |                  |                  |           |                           |                                                                               |                 |       |                  |     |
| Sample Name            |  | PLOT 109 - 5 JARS         |              |                   |                 | Sampling Date    |                  | 25-May-24 |                           | g dwt <div>Approved:<br/>S.Sarhaddi<br/>--e-signature--<br/>14-Aug-2024</div> |                 |       |                  |     |
| ALS Sample ID          |  | L2756078-5                |              |                   |                 | Extraction Date  |                  | 6-Jul-24  |                           |                                                                               |                 |       |                  |     |
| Analysis Method        |  | EPA 1668C                 |              |                   |                 | Sample Size      |                  | 2.89      |                           |                                                                               |                 |       |                  |     |
| Analysis Type          |  | Sample                    |              |                   |                 | Percent Moisture |                  | 71.9%     |                           |                                                                               |                 |       |                  |     |
| Sample Matrix          |  | Tissue                    |              |                   |                 | Split Ratio      |                  | 4         |                           |                                                                               |                 |       |                  |     |
| Run Information        |  | Run 1                     |              |                   |                 |                  |                  |           | Run 3                     |                                                                               |                 |       |                  |     |
| Filename               |  | 6-240714A18               |              |                   |                 |                  |                  |           | 6-240810A12               |                                                                               |                 |       |                  |     |
| Run Date               |  | 14-Jul-24 20:26           |              |                   |                 |                  |                  |           | 10-Aug-24 22:24           |                                                                               |                 |       |                  |     |
| Final Volume           |  | 25 ul                     |              |                   |                 |                  |                  |           | 10 uL                     |                                                                               |                 |       |                  |     |
| Dilution Factor        |  | 1                         |              |                   |                 |                  |                  |           | 1                         |                                                                               |                 |       |                  |     |
| Analysis Units         |  | pg/g dwt                  |              |                   |                 |                  |                  |           | pg/g dwt                  |                                                                               |                 |       |                  |     |
| Instrument - Column    |  | HRMS-6 SPBOCTYL-281311-07 |              |                   |                 |                  |                  |           | HRMS-6 SPBOCTYL-283388-03 |                                                                               |                 |       |                  |     |
| Target Analytes        |  | TEF<br>(WHO 2005)         | Ret.<br>Time | Conc.<br>pg/g dwt | EDL<br>pg/g dwt | Flags            | EMPC<br>pg/g dwt | LQL       | Ret.<br>Time              | Conc.<br>pg/g dwt                                                             | EDL<br>pg/g dwt | Flags | EMPC<br>pg/g dwt | LQL |
| PCB-001                |  |                           | NotFnd       | <2.9              | 2.9             | U                |                  | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-002                |  |                           | 10.85        | <3.6              | 3.0             | J,R              | 3.6              | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-003                |  |                           | 10.99        | <4.7              | 3.3             | M,J,R            | 4.7              | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-004                |  |                           | NotFnd       | <25               | 25              | U                |                  | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-010                |  |                           | NotFnd       | <12               | 12              | U                |                  | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-009                |  |                           | NotFnd       | <13               | 13              | U                |                  | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-007                |  |                           | NotFnd       | <13               | 13              | U                |                  | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-006                |  |                           | NotFnd       | <13               | 13              | U                |                  | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-005                |  |                           | NotFnd       | <14               | 14              | U                |                  | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-008                |  |                           | NotFnd       | <12               | 12              | U                |                  | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-014                |  |                           | NotFnd       | <28               | 28              | U                |                  | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-011                |  |                           | 14.49        | 129               | 28              |                  |                  | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-012/013            |  |                           | NotFnd       | <28               | 28              | U                |                  | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-015                |  |                           | NotFnd       | <27               | 27              | U                |                  | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-019                |  |                           | NotFnd       | <7.6              | 7.6             | U                |                  | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-018/030            |  |                           | 14.28        | 11.2              | 4.4             | M,J              |                  | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-017                |  |                           | 14.51        | <5.2              | 5.2             | U                | 3.6              | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-027                |  |                           | NotFnd       | <3.8              | 3.8             | U                |                  | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-024                |  |                           | NotFnd       | <4.4              | 4.4             | U                |                  | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-016                |  |                           | 14.83        | <5.9              | 5.9             | U                |                  | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-032                |  |                           | NotFnd       | <3.5              | 3.5             | U                |                  | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-034                |  |                           | NotFnd       | <6.0              | 6.0             | U                |                  | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-023                |  |                           | NotFnd       | <5.9              | 5.9             | U                |                  | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-026/029            |  |                           | NotFnd       | <5.5              | 5.5             | U                |                  | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-025                |  |                           | 16.24        | <5.4              | 5.4             | U                | 1.4              | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-031                |  |                           | 16.41        | <18               | 5.1             | J,R              | 18               | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-020/028            |  |                           | 16.57        | 229               | 5.8             |                  |                  | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-021/033            |  |                           | 16.73        | <10               | 5.5             | M,J,R            | 10               | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-022                |  |                           | 16.97        | <6.2              | 6.2             | M,U              | 4.0              | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-036                |  |                           | NotFnd       | <5.2              | 5.2             | U                |                  | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-039                |  |                           | NotFnd       | <6.3              | 6.3             | U                |                  | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-038                |  |                           | NotFnd       | <6.0              | 6.0             | U                |                  | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-035                |  |                           | 18.62        | <6.2              | 6.2             | U                | 3.2              | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-037                |  |                           | 18.84        | 55.9              | 5.7             | M                |                  | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-054                |  |                           | NotFnd       | <3.3              | 3.3             | U                |                  | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-050/053            |  |                           | NotFnd       | <5.6              | 5.6             | U                |                  | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-045/051            |  |                           | NotFnd       | <5.9              | 5.9             | U                |                  | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-046                |  |                           | NotFnd       | <6.5              | 6.5             | U                |                  | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-052                |  |                           | 17.57        | 51.4              | 5.8             |                  |                  | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-073                |  |                           | NotFnd       | <4.1              | 4.1             | U                |                  | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-043                |  |                           | NotFnd       | <6.7              | 6.7             | U                |                  | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-049/069            |  |                           | 17.84        | 19.9              | 4.8             | J                |                  | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-048                |  |                           | 18.00        | <5.6              | 5.6             | U                | 3.7              | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-044/047/065        |  |                           | 18.14        | <60               | 4.9             | R                | 60               | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-059/062/075        |  |                           | 18.29        | <13               | 4.1             | M,J,R            | 13               | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-042                |  |                           | 18.43        | <6.5              | 6.5             | U                | 6.3              | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-040/041/071        |  |                           | NotFnd       | <5.7              | 5.7             | U                |                  | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-064                |  |                           | 18.83        | <15               | 4.1             | J,R              | 15               | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-072                |  |                           | NotFnd       | <6.4              | 6.4             | U                |                  | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-068                |  |                           | NotFnd       | <6.4              | 6.4             | U                |                  | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-057                |  |                           | NotFnd       | <6.8              | 6.8             | U                |                  | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-058                |  |                           | NotFnd       | <6.5              | 6.5             | U                |                  | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-067                |  |                           | NotFnd       | <5.6              | 5.6             | U                |                  | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-063                |  |                           | 19.99        | 20.8              | 6.5             | J                |                  | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-061/070/074/076    |  |                           | 20.21        | 1400              | 6.3             |                  |                  | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-066                |  |                           | 20.35        | 316               | 6.3             |                  |                  | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-055                |  |                           | NotFnd       | <7.1              | 7.1             | U                |                  | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-056                |  |                           | 20.75        | 31.7              | 6.2             | J                |                  | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-060                |  |                           | 20.87        | 218               | 6.7             |                  |                  | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-080                |  |                           | NotFnd       | <5.4              | 5.4             | U                |                  | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-079                |  |                           | 21.85        | <7.4              | 5.8             | J,R              | 7.4              | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-078                |  |                           | NotFnd       | <7.0              | 7.0             | U                |                  | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-081                |  | 0.0003                    | 22.41        | 38.2              | 6.5             |                  |                  | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-077                |  | 0.0001                    | 22.71        | 366               | 7.1             |                  |                  | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-104                |  |                           | NotFnd       | <2.9              | 2.9             | U                |                  | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-096                |  |                           | NotFnd       | <4.0              | 4.0             | U                |                  | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-103                |  |                           | NotFnd       | <5.7              | 5.7             | U                |                  | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-094                |  |                           | NotFnd       | <6.2              | 6.2             | U                |                  | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-095                |  |                           | 19.73        | 77.2              | 7.0             |                  |                  | 35        |                           |                                                                               |                 |       |                  |     |
| PCB-093/098/100/102    |  |                           | NotFnd       | <5.4              | 5.4             | U                |                  | 35        |                           |                                                                               |                 |       |                  |     |

| ALS Life Sciences           |  |                           |              |                   |                 |                  |                  |           |                           |                                                                          |                 |       |                  |     |       |  |
|-----------------------------|--|---------------------------|--------------|-------------------|-----------------|------------------|------------------|-----------|---------------------------|--------------------------------------------------------------------------|-----------------|-------|------------------|-----|-------|--|
| Sample Analysis Report      |  |                           |              |                   |                 |                  |                  |           |                           |                                                                          |                 |       |                  |     |       |  |
| Sample Name                 |  | PLOT 109 - 5 JARS         |              |                   |                 | Sampling Date    |                  | 25-May-24 |                           | <div>Approved:<br/>S. Sarhaddi<br/>--e-signature--<br/>14-Aug-2024</div> |                 |       |                  |     |       |  |
| ALS Sample ID               |  | L2756078-5                |              |                   |                 | Extraction Date  |                  | 6-Jul-24  |                           |                                                                          |                 |       |                  |     |       |  |
| Analysis Method             |  | EPA 1668C                 |              |                   |                 | Sample Size      |                  | 2.89      |                           |                                                                          |                 |       |                  |     | g dwt |  |
| Analysis Type               |  | Sample                    |              |                   |                 | Percent Moisture |                  | 71.9%     |                           |                                                                          |                 |       |                  |     |       |  |
| Sample Matrix               |  | Tissue                    |              |                   |                 | Split Ratio      |                  | 4         |                           |                                                                          |                 |       |                  |     |       |  |
| Run Information             |  | Run 1                     |              |                   |                 |                  |                  |           | Run 3                     |                                                                          |                 |       |                  |     |       |  |
| Filename                    |  | 6-240714A18               |              |                   |                 |                  |                  |           | 6-240810A12               |                                                                          |                 |       |                  |     |       |  |
| Run Date                    |  | 14-Jul-24 20:26           |              |                   |                 |                  |                  |           | 10-Aug-24 22:24           |                                                                          |                 |       |                  |     |       |  |
| Final Volume                |  | 25 ul                     |              |                   |                 |                  |                  |           | 10 uL                     |                                                                          |                 |       |                  |     |       |  |
| Dilution Factor             |  | 1                         |              |                   |                 |                  |                  |           | 1                         |                                                                          |                 |       |                  |     |       |  |
| Analysis Units              |  | pg/g dwt                  |              |                   |                 |                  |                  |           | pg/g dwt                  |                                                                          |                 |       |                  |     |       |  |
| Instrument - Column         |  | HRMS-6 SPBOCTYL-281311-07 |              |                   |                 |                  |                  |           | HRMS-6 SPBOCTYL-283388-03 |                                                                          |                 |       |                  |     |       |  |
| Target Analytes             |  | TEF<br>(WHO 2005)         | Ret.<br>Time | Conc.<br>pg/g dwt | EDL<br>pg/g dwt | Flags            | EMPC<br>pg/g dwt | LQL       | Ret.<br>Time              | Conc.<br>pg/g dwt                                                        | EDL<br>pg/g dwt | Flags | EMPC<br>pg/g dwt | LQL |       |  |
| PCB-088/091                 |  |                           | 20.17        | <13               | 5.8             | M,J,R            | 13               | 35        |                           |                                                                          |                 |       |                  |     |       |  |
| PCB-084                     |  |                           | 20.34        | <17               | 6.0             | J,R              | 17               | 35        |                           |                                                                          |                 |       |                  |     |       |  |
| PCB-089                     |  |                           | NotFnd       | <7.2              | 7.2             | U                |                  | 35        |                           |                                                                          |                 |       |                  |     |       |  |
| PCB-121                     |  |                           | NotFnd       | <4.0              | 4.0             | U                |                  | 35        |                           |                                                                          |                 |       |                  |     |       |  |
| PCB-092                     |  |                           | 20.93        | 58.3              | 6.5             |                  |                  | 35        |                           |                                                                          |                 |       |                  |     |       |  |
| PCB-090/101/113             |  |                           | 21.22        | 320               | 4.7             |                  |                  | 35        |                           |                                                                          |                 |       |                  |     |       |  |
| PCB-083/099                 |  |                           | 21.53        | 1090              | 6.0             |                  |                  | 35        |                           |                                                                          |                 |       |                  |     |       |  |
| PCB-112                     |  |                           | NotFnd       | <3.8              | 3.8             | U                |                  | 35        |                           |                                                                          |                 |       |                  |     |       |  |
| PCB-086/087/097/109/119/125 |  |                           | 21.90        | 156               | 4.5             | M                |                  | 35        |                           |                                                                          |                 |       |                  |     |       |  |
| PCB-085/110/115/116/117     |  |                           | 22.32        | 792               | 4.3             | M                |                  | 35        |                           |                                                                          |                 |       |                  |     |       |  |
| PCB-082                     |  |                           | 22.52        | <20               | 7.4             | J,R              | 20               | 35        |                           |                                                                          |                 |       |                  |     |       |  |
| PCB-111                     |  |                           | NotFnd       | <3.8              | 3.8             | U                |                  | 35        |                           |                                                                          |                 |       |                  |     |       |  |
| PCB-120                     |  |                           | 22.84        | <23               | 3.9             | J,R              | 23               | 35        |                           |                                                                          |                 |       |                  |     |       |  |
| PCB-108/124                 |  |                           | 23.48        | 38.7              | 9.6             |                  |                  | 35        |                           |                                                                          |                 |       |                  |     |       |  |
| PCB-107                     |  |                           | 23.61        | 431               | 9.5             | M                |                  | 35        |                           |                                                                          |                 |       |                  |     |       |  |
| PCB-123                     |  | 0.00003                   | 23.66        | 42.3              | 11              | M                |                  | 35        |                           |                                                                          |                 |       |                  |     |       |  |
| PCB-106                     |  |                           | NotFnd       | <11               | 11              | U                |                  | 35        |                           |                                                                          |                 |       |                  |     |       |  |
| PCB-118                     |  | 0.00003                   | 23.84        | 24700             | 7.9             |                  |                  | 35        |                           |                                                                          |                 |       |                  |     |       |  |
| PCB-122                     |  |                           | NotFnd       | <13               | 13              | U                |                  | 35        |                           |                                                                          |                 |       |                  |     |       |  |
| PCB-114                     |  | 0.00003                   | 24.15        | 299               | 11              |                  |                  | 35        |                           |                                                                          |                 |       |                  |     |       |  |
| PCB-105                     |  | 0.00003                   | 24.51        | 3660              | 10              |                  |                  | 35        |                           |                                                                          |                 |       |                  |     |       |  |
| PCB-127                     |  |                           | 25.22        | <12               | 9.3             | J,R              | 12               | 35        |                           |                                                                          |                 |       |                  |     |       |  |
| PCB-126                     |  | 0.1                       |              |                   |                 |                  |                  |           | 26.08                     | 1180                                                                     | 0.85            |       |                  | 14  |       |  |
| PCB-155                     |  |                           | 21.06        | 1.38              | 1.4             | J                |                  | 35        |                           |                                                                          |                 |       |                  |     |       |  |
| PCB-152                     |  |                           | NotFnd       | <2.6              | 2.6             | U                |                  | 35        |                           |                                                                          |                 |       |                  |     |       |  |
| PCB-150                     |  |                           | NotFnd       | <1.9              | 1.9             | U                |                  | 35        |                           |                                                                          |                 |       |                  |     |       |  |
| PCB-136                     |  |                           | 21.58        | 17.8              | 2.3             | J                |                  | 35        |                           |                                                                          |                 |       |                  |     |       |  |
| PCB-145                     |  |                           | NotFnd       | <2.2              | 2.2             | U                |                  | 35        |                           |                                                                          |                 |       |                  |     |       |  |
| PCB-148                     |  |                           | NotFnd       | <2.9              | 2.9             | U                |                  | 35        |                           |                                                                          |                 |       |                  |     |       |  |
| PCB-135/151                 |  |                           | 22.75        | 213               | 3.0             |                  |                  | 35        |                           |                                                                          |                 |       |                  |     |       |  |
| PCB-154                     |  |                           | NotFnd       | <2.3              | 2.3             | U                |                  | 35        |                           |                                                                          |                 |       |                  |     |       |  |
| PCB-144                     |  |                           | 23.06        | 27.1              | 3.0             | J                |                  | 35        |                           |                                                                          |                 |       |                  |     |       |  |
| PCB-147/149                 |  |                           | 23.24        | <11               | 11              | M,U              | 1.8              | 35        |                           |                                                                          |                 |       |                  |     |       |  |
| PCB-134/143                 |  |                           | 23.38        | <17               | 13              | J,R              | 17               | 35        |                           |                                                                          |                 |       |                  |     |       |  |
| PCB-139/140                 |  |                           | 23.54        | 50.2              | 10              |                  |                  | 35        |                           |                                                                          |                 |       |                  |     |       |  |
| PCB-131                     |  |                           | NotFnd       | <13               | 13              | U                |                  | 35        |                           |                                                                          |                 |       |                  |     |       |  |
| PCB-142                     |  |                           | NotFnd       | <13               | 13              | U                |                  | 35        |                           |                                                                          |                 |       |                  |     |       |  |
| PCB-132                     |  |                           | 23.95        | 172               | 12              |                  |                  | 35        |                           |                                                                          |                 |       |                  |     |       |  |
| PCB-133                     |  |                           | 24.10        | 107               | 12              |                  |                  | 35        |                           |                                                                          |                 |       |                  |     |       |  |
| PCB-165                     |  |                           | 24.31        | 18.8              | 8.8             | J                |                  | 35        |                           |                                                                          |                 |       |                  |     |       |  |
| PCB-146                     |  |                           | 24.44        | 1070              | 9.6             |                  |                  | 35        |                           |                                                                          |                 |       |                  |     |       |  |
| PCB-161                     |  |                           | NotFnd       | <7.3              | 7.3             | U                |                  | 35        |                           |                                                                          |                 |       |                  |     |       |  |
| PCB-153/168                 |  |                           | 24.75        | 22300             | 8.0             |                  |                  | 35        |                           |                                                                          |                 |       |                  |     |       |  |
| PCB-141                     |  |                           | 24.89        | 391               | 10              |                  |                  | 35        |                           |                                                                          |                 |       |                  |     |       |  |
| PCB-130                     |  |                           | 25.12        | 737               | 12              |                  |                  | 35        |                           |                                                                          |                 |       |                  |     |       |  |
| PCB-137/164                 |  |                           | 25.22        | 240               | 8.8             | M                |                  | 35        |                           |                                                                          |                 |       |                  |     |       |  |
| PCB-129/138/163             |  |                           | 25.45        | 16800             | 9.7             |                  |                  | 35        |                           |                                                                          |                 |       |                  |     |       |  |
| PCB-160                     |  |                           | NotFnd       | <8.1              | 8.1             | U                |                  | 35        |                           |                                                                          |                 |       |                  |     |       |  |
| PCB-158                     |  |                           | 25.66        | 1030              | 6.4             |                  |                  | 35        |                           |                                                                          |                 |       |                  |     |       |  |
| PCB-128/166                 |  |                           | 26.15        | 1510              | 8.5             | M                |                  | 35        |                           |                                                                          |                 |       |                  |     |       |  |
| PCB-159                     |  |                           | 26.57        | 26.6              | 7.1             | J                |                  | 35        |                           |                                                                          |                 |       |                  |     |       |  |
| PCB-162                     |  |                           | 26.72        | 148               | 7.6             |                  |                  | 35        |                           |                                                                          |                 |       |                  |     |       |  |
| PCB-167                     |  | 0.00003                   | 26.96        | 3090              | 6.5             |                  |                  | 35        |                           |                                                                          |                 |       |                  |     |       |  |
| PCB-156/157                 |  | 0.00003                   | 27.59        | 6330              | 9.9             |                  |                  | 69        |                           |                                                                          |                 |       |                  |     |       |  |
| PCB-169                     |  | 0.03                      |              |                   |                 |                  |                  |           | 29.26                     | 64.3                                                                     | 0.65            |       |                  | 14  |       |  |
| PCB-188                     |  |                           | NotFnd       | <3.8              | 3.8             | U                |                  | 35        |                           |                                                                          |                 |       |                  |     |       |  |
| PCB-179                     |  |                           | 24.31        | 34.7              | 4.7             |                  |                  | 35        |                           |                                                                          |                 |       |                  |     |       |  |
| PCB-184                     |  |                           | 24.51        | <4.3              | 4.3             | U                | 0.61             | 35        |                           |                                                                          |                 |       |                  |     |       |  |
| PCB-176                     |  |                           | 24.76        | <12               | 4.4             | J,R              | 12               | 35        |                           |                                                                          |                 |       |                  |     |       |  |
| PCB-186                     |  |                           | NotFnd       | <4.8              | 4.8             | U                |                  | 35        |                           |                                                                          |                 |       |                  |     |       |  |
| PCB-178                     |  |                           | 25.64        | 2180              | 6.4             |                  |                  | 35        |                           |                                                                          |                 |       |                  |     |       |  |
| PCB-175                     |  |                           | 25.97        | <50               | 6.1             | R                | 50               | 35        |                           |                                                                          |                 |       |                  |     |       |  |
| PCB-187                     |  |                           | 26.10        | 13400             | 5.5             |                  |                  | 35        |                           |                                                                          |                 |       |                  |     |       |  |
| PCB-182                     |  |                           | NotFnd       | <5.5              | 5.5             | U                |                  | 35        |                           |                                                                          |                 |       |                  |     |       |  |
| PCB-183                     |  |                           | 26.42        | 2400              | 5.6             |                  |                  | 35        |                           |                                                                          |                 |       |                  |     |       |  |
| PCB-185                     |  |                           | 26.51        | 52.1              | 6.5             |                  |                  | 35        |                           |                                                                          |                 |       |                  |     |       |  |
| PCB-174                     |  |                           | 26.59        | 248               | 5.6             |                  |                  | 35        |                           |                                                                          |                 |       |                  |     |       |  |
| PCB-177                     |  |                           | 26.82        | 5980              | 6.2             |                  |                  | 35        |                           |                                                                          |                 |       |                  |     |       |  |
| PCB-181                     |  |                           | 27.01        | <51               | 6.2             | R                | 51               | 35        |                           |                                                                          |                 |       |                  |     |       |  |
| PCB-171/173                 |  |                           | 27.14        | 932               | 6.1             |                  |                  | 35        |                           |                                                                          |                 |       |                  |     |       |  |
| PCB-172                     |  |                           | 27.92        | 2500              | 5.9             |                  |                  | 35        |                           |                                                                          |                 |       |                  |     |       |  |



| ALS Life Sciences      |  |                           |              |                   |                 |                  |                  |            |                           |                                                                         |                 |       |                  |     |
|------------------------|--|---------------------------|--------------|-------------------|-----------------|------------------|------------------|------------|---------------------------|-------------------------------------------------------------------------|-----------------|-------|------------------|-----|
| Sample Analysis Report |  |                           |              |                   |                 |                  |                  |            |                           |                                                                         |                 |       |                  |     |
| Sample Name            |  | PLOT 109 - 5 JARS         |              |                   |                 | Sampling Date    |                  | 25-May-24  |                           | <div>Approved:<br/>S.Sarhaddi<br/>--e-signature--<br/>14-Aug-2024</div> |                 |       |                  |     |
| ALS Sample ID          |  | L2756078-5                |              |                   |                 | Extraction Date  |                  | 6-Jul-24   |                           |                                                                         |                 |       |                  |     |
| Analysis Method        |  | EPA 1668C                 |              |                   |                 | Sample Size      |                  | 2.89 g dwt |                           |                                                                         |                 |       |                  |     |
| Analysis Type          |  | Sample                    |              |                   |                 | Percent Moisture |                  | 71.9%      |                           |                                                                         |                 |       |                  |     |
| Sample Matrix          |  | Tissue                    |              |                   |                 | Split Ratio      |                  | 4          |                           |                                                                         |                 |       |                  |     |
| Run Information        |  | Run 1                     |              |                   |                 |                  |                  |            | Run 3                     |                                                                         |                 |       |                  |     |
| Filename               |  | 6-240714A18               |              |                   |                 |                  |                  |            | 6-240810A12               |                                                                         |                 |       |                  |     |
| Run Date               |  | 14-Jul-24 20:26           |              |                   |                 |                  |                  |            | 10-Aug-24 22:24           |                                                                         |                 |       |                  |     |
| Final Volume           |  | 25 ul                     |              |                   |                 |                  |                  |            | 10 uL                     |                                                                         |                 |       |                  |     |
| Dilution Factor        |  | 1                         |              |                   |                 |                  |                  |            | 1                         |                                                                         |                 |       |                  |     |
| Analysis Units         |  | pg/g dwt                  |              |                   |                 |                  |                  |            | pg/g dwt                  |                                                                         |                 |       |                  |     |
| Instrument - Column    |  | HRMS-6 SPBOCTYL-281311-07 |              |                   |                 |                  |                  |            | HRMS-6 SPBOCTYL-283388-03 |                                                                         |                 |       |                  |     |
| Target Analytes        |  | TEF<br>(WHO 2005)         | Ret.<br>Time | Conc.<br>pg/g dwt | EDL<br>pg/g dwt | Flags            | EMPC<br>pg/g dwt | LQL        | Ret.<br>Time              | Conc.<br>pg/g dwt                                                       | EDL<br>pg/g dwt | Flags | EMPC<br>pg/g dwt | LQL |
| PCB-192                |  | 0.00003                   | 28.07        | <6.8              | 4.9             | J,R              | 6.8              | 35         |                           |                                                                         |                 |       |                  |     |
| PCB-180/193            |  |                           | 28.25        | 46700             | 4.8             |                  |                  | 35         |                           |                                                                         |                 |       |                  |     |
| PCB-191                |  |                           | 28.44        | <62               | 4.1             | R                | 62               | 35         |                           |                                                                         |                 |       |                  |     |
| PCB-170                |  |                           | 28.95        | 7040              | 5.7             |                  |                  | 35         |                           |                                                                         |                 |       |                  |     |
| PCB-190                |  |                           | 29.22        | 5450              | 3.6             |                  |                  | 35         |                           |                                                                         |                 |       |                  |     |
| PCB-189                |  |                           | 30.54        | 1500              | 5.6             |                  |                  | 35         |                           |                                                                         |                 |       |                  |     |
| PCB-202                |  |                           | 26.85        | 926               | 3.1             |                  |                  | 35         |                           |                                                                         |                 |       |                  |     |
| PCB-201                |  |                           | 27.31        | 120               | 3.3             |                  |                  | 35         |                           |                                                                         |                 |       |                  |     |
| PCB-204                |  |                           | NotFnd       | <3.3              | 3.3             | U                |                  | 35         |                           |                                                                         |                 |       |                  |     |
| PCB-197                |  |                           | 27.77        | 93.7              | 3.6             |                  |                  | 35         |                           |                                                                         |                 |       |                  |     |
| PCB-200                |  | 27.89                     | 10.7         | 3.5               | J               |                  | 35               |            |                           |                                                                         |                 |       |                  |     |
| PCB-198/199            |  | 29.27                     | 17200        | 4.5               |                 |                  | 35               |            |                           |                                                                         |                 |       |                  |     |
| PCB-196                |  | 29.60                     | 1140         | 4.3               |                 |                  | 35               |            |                           |                                                                         |                 |       |                  |     |
| PCB-203                |  | 29.69                     | 8720         | 4.1               |                 |                  | 35               |            |                           |                                                                         |                 |       |                  |     |
| PCB-195                |  | 30.44                     | 4430         | 8.6               |                 |                  | 35               |            |                           |                                                                         |                 |       |                  |     |
| PCB-194                |  | 31.70                     | 20900        | 7.8               |                 |                  | 35               |            |                           |                                                                         |                 |       |                  |     |
| PCB-205                |  | 31.99                     | 1130         | 7.2               |                 |                  | 35               |            |                           |                                                                         |                 |       |                  |     |
| PCB-208                |  | 30.26                     | 371          | 2.3               |                 |                  | 35               |            |                           |                                                                         |                 |       |                  |     |
| PCB-207                |  | 30.75                     | 128          | 2.6               |                 |                  | 35               |            |                           |                                                                         |                 |       |                  |     |
| PCB-206                |  | 33.11                     | 4090         | 4.0               |                 |                  | 35               |            |                           |                                                                         |                 |       |                  |     |
| PCB-209                |  | 34.30                     | 276          | 1.6               |                 |                  | 35               |            |                           |                                                                         |                 |       |                  |     |
| Extraction Standards   |  | pg                        | Time         | % Rec             | Limits          |                  |                  |            | Time                      | % Rec                                                                   | Limits          |       |                  |     |
| 13C12-PCB-001          |  | 4000                      | 9.39         | 19                | 5-145           |                  |                  |            |                           |                                                                         |                 |       |                  |     |
| 13C12-PCB-003          |  | 4000                      | 10.96        | 23                | 5-145           |                  |                  |            |                           |                                                                         |                 |       |                  |     |
| 13C12-PCB-004          |  | 4000                      | 11.13        | 27                | 5-145           |                  |                  |            |                           |                                                                         |                 |       |                  |     |
| 13C12-PCB-015          |  | 4000                      | 14.87        | 35                | 5-145           |                  |                  |            |                           |                                                                         |                 |       |                  |     |
| 13C12-PCB-019          |  | 4000                      | 13.16        | 31                | 5-145           |                  |                  |            |                           |                                                                         |                 |       |                  |     |
| 13C12-PCB-037          |  | 4000                      | 18.83        | 41                | 5-145           |                  |                  |            |                           |                                                                         |                 |       |                  |     |
| 13C12-PCB-054          |  | 4000                      | 15.04        | 35                | 5-145           |                  |                  |            |                           |                                                                         |                 |       |                  |     |
| 13C12-PCB-081          |  | 4000                      | 22.40        | 54                | 10-145          |                  |                  |            |                           |                                                                         |                 |       |                  |     |
| 13C12-PCB-077          |  | 4000                      | 22.70        | 53                | 10-145          |                  |                  |            |                           |                                                                         |                 |       |                  |     |
| 13C12-PCB-104          |  | 4000                      | 18.08        | 54                | 10-145          |                  |                  |            |                           |                                                                         |                 |       |                  |     |
| 13C12-PCB-123          |  | 4000                      | 23.66        | 61                | 10-145          |                  |                  |            |                           |                                                                         |                 |       |                  |     |
| 13C12-PCB-118          |  | 4000                      | 23.83        | 73                | 10-145          |                  |                  |            |                           |                                                                         |                 |       |                  |     |
| 13C12-PCB-114          |  | 4000                      | 24.13        | 57                | 10-145          |                  |                  |            |                           |                                                                         |                 |       |                  |     |
| 13C12-PCB-105          |  | 4000                      | 24.50        | 63                | 10-145          |                  |                  |            |                           |                                                                         |                 |       |                  |     |
| 13C12-PCB-126          |  | 4000                      |              |                   |                 |                  |                  |            | 26.07                     | 71                                                                      | 10-145          |       |                  |     |
| 13C12-PCB-155          |  | 4000                      | 21.06        | 59                | 10-145          |                  |                  |            |                           |                                                                         |                 |       |                  |     |
| 13C12-PCB-167          |  | 4000                      | 26.95        | 61                | 10-145          |                  |                  |            |                           |                                                                         |                 |       |                  |     |
| 13C12-PCB-156/157      |  | 8000                      | 27.60        | 59                | 10-145          |                  |                  |            |                           |                                                                         |                 |       |                  |     |
| 13C12-PCB-169          |  | 4000                      |              |                   |                 |                  |                  |            | 29.24                     | 93                                                                      | 10-145          |       |                  |     |
| 13C12-PCB-188          |  | 4000                      | 24.06        | 56                | 10-145          |                  |                  |            |                           |                                                                         |                 |       |                  |     |
| 13C12-PCB-189          |  | 4000                      | 30.52        | 60                | 10-145          |                  |                  |            |                           |                                                                         |                 |       |                  |     |
| 13C12-PCB-202          |  | 4000                      | 26.83        | 60                | 10-145          |                  |                  |            |                           |                                                                         |                 |       |                  |     |
| 13C12-PCB-205          |  | 4000                      | 31.98        | 62                | 10-145          |                  |                  |            |                           |                                                                         |                 |       |                  |     |
| 13C12-PCB-208          |  | 4000                      | 30.25        | 62                | 10-145          |                  |                  |            |                           |                                                                         |                 |       |                  |     |
| 13C12-PCB-206          |  | 4000                      | 33.09        | 63                | 10-145          |                  |                  |            |                           |                                                                         |                 |       |                  |     |
| 13C12-PCB-209          |  | 4000                      | 34.27        | 68                | 10-145          |                  |                  |            |                           |                                                                         |                 |       |                  |     |
| Cleanup Standards      |  |                           |              |                   |                 |                  |                  |            |                           |                                                                         |                 |       |                  |     |
| 13C12-PCB-028          |  | 4000                      | 16.56        | 43                | 5-145           |                  |                  |            |                           |                                                                         |                 |       |                  |     |
| 13C12-PCB-111          |  | 4000                      | 22.58        | 62                | 10-145          |                  |                  |            |                           |                                                                         |                 |       |                  |     |
| 13C12-PCB-178          |  | 4000                      | 25.63        | 65                | 10-145          |                  |                  |            |                           |                                                                         |                 |       |                  |     |

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## Sample Analysis Report

|                    |                          |                  |           |       |                                                                                                      |
|--------------------|--------------------------|------------------|-----------|-------|------------------------------------------------------------------------------------------------------|
| <b>Sample Name</b> | <b>PLOT 109 - 5 JARS</b> | Sampling Date    | 25-May-24 | g dwt | <div>Approved:</div> <div><i>S. Sarhaddi</i></div> <div>--e-signature--</div> <div>14-Aug-2024</div> |
| ALS Sample ID      | L2756078-5               | Extraction Date  | 6-Jul-24  |       |                                                                                                      |
| Analysis Method    | EPA 1668C                | Sample Size      | 2.89      |       |                                                                                                      |
| Analysis Type      | Sample                   | Percent Moisture | 71.9%     |       |                                                                                                      |
| Sample Matrix      | Tissue                   | Split Ratio      | 4         |       |                                                                                                      |

| Run Information     |  | Run 1                     | Run 3                     |
|---------------------|--|---------------------------|---------------------------|
| Filename            |  | 6-240714A18               | 6-240810A12               |
| Run Date            |  | 14-Jul-24 20:26           | 10-Aug-24 22:24           |
| Final Volume        |  | 25 uL                     | 10 uL                     |
| Dilution Factor     |  | 1                         | 1                         |
| Analysis Units      |  | pg/g dwt                  | pg/g dwt                  |
| Instrument - Column |  | HRMS-6 SPBOCTYL-281311-07 | HRMS-6 SPBOCTYL-283388-03 |

| Target Analytes                | TEF        | Ret. | Conc.    | EDL      | EMPC  |          |     | Ret. | Conc.    | EDL      | EMPC  |          |     |
|--------------------------------|------------|------|----------|----------|-------|----------|-----|------|----------|----------|-------|----------|-----|
|                                | (WHO 2005) | Time | pg/g dwt | pg/g dwt | Flags | pg/g dwt | LQL | Time | pg/g dwt | pg/g dwt | Flags | pg/g dwt | LQL |
| Homologue Group Totals         |            |      | pg/g dwt | pg/g dwt | Flags | LQL      |     |      |          |          |       |          |     |
| Total MonoCB                   |            |      | 8.30     | 2.9      | J     | 140      |     |      |          |          |       |          |     |
| Total DiCB                     |            |      | 129      | 12       | J     | 280      |     |      |          |          |       |          |     |
| Total TriCB                    |            |      | 324      | 3.5      | J     | 280      |     |      |          |          |       |          |     |
| Total TetraCB                  |            |      | 2560     | 3.3      | J     | 550      |     |      |          |          |       |          |     |
| Total PentaCB                  |            |      | 32900    | 0.85     | J     | 550      |     |      |          |          |       |          |     |
| Total HexaCB                   |            |      | 54400    | 0.65     | J     | 550      |     |      |          |          |       |          |     |
| Total HeptaCB                  |            |      | 88600    | 3.6      | J     | 280      |     |      |          |          |       |          |     |
| Total OctaCB                   |            |      | 54700    | 3.1      | J     | 280      |     |      |          |          |       |          |     |
| Total NonaCB                   |            |      | 4590     | 2.3      | J     | 140      |     |      |          |          |       |          |     |
| DecaCB                         |            |      | 276      | 1.6      | J     | 140      |     |      |          |          |       |          |     |
| Total PCB                      |            |      | 238000   |          | J     | 1100     |     |      |          |          |       |          |     |
| Toxic Equivalency - (WHO 2005) |            |      |          |          |       |          |     |      |          |          |       |          |     |
| Lower Bound PCB TEQ            |            |      | 121      |          |       |          |     |      |          |          |       |          |     |
| Mid Point PCB TEQ              |            |      | 121      |          |       |          |     |      |          |          |       |          |     |
| Upper Bound PCB TEQ            |            |      | 121      |          |       |          |     |      |          |          |       |          |     |

|      |                                                                                                                                                   |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| EDL  | Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.                                   |
| TEF  | Indicates the Toxic Equivalency Factor                                                                                                            |
| LQL  | Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.                                |
| M    | Indicates that a peak has been manually integrated.                                                                                               |
| U    | Indicates that this compound was not detected above the EDL.                                                                                      |
| E    | Indicates that this compound was detected above the calibrated range.                                                                             |
| J    | Indicates that the analyte was positively identified. The associated numerical result is an estimate.                                             |
| R    | Indicates that the ion abundance ratio for this analyte did not meet the control limit. The reported value represents an estimated concentration. |
| EMPC | Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure                          |

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|                        |  |
|------------------------|--|
| Sample Analysis Report |  |
|------------------------|--|

|                 |                   |                  |           |       |                                                           |
|-----------------|-------------------|------------------|-----------|-------|-----------------------------------------------------------|
| Sample Name     | PLOT 110 - 4 JARS | Sampling Date    | 25-May-24 | g dwt | Approved:<br>S.Sarhaddi<br>--e-signature--<br>14-Aug-2024 |
| ALS Sample ID   | L2756078-6        | Extraction Date  | 6-Jul-24  |       |                                                           |
| Analysis Method | EPA 1668C         | Sample Size      | 2.95      |       |                                                           |
| Analysis Type   | Sample            | Percent Moisture | 71.5%     |       |                                                           |
| Sample Matrix   | Tissue            | Split Ratio      | 4         |       |                                                           |

| Run Information     | Run 1                     | Run 2                     | Run 3                     |
|---------------------|---------------------------|---------------------------|---------------------------|
| Filename            | 6-240714A19               | 6-240718A25               | 6-240810A13               |
| Run Date            | 14-Jul-24 21:13           | 19-Jul-24 07:03           | 10-Aug-24 23:10           |
| Final Volume        | 25 ul                     | 25 uL                     | 10 uL                     |
| Dilution Factor     | 1                         | 10                        | 1                         |
| Analysis Units      | pg/g dwt                  | pg/g dwt                  | pg/g dwt                  |
| Instrument - Column | HRMS-6 SPBOCTYL-281311-07 | HRMS-6 SPBOCTYL-283388-03 | HRMS-6 SPBOCTYL-283388-03 |

[illegible]



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|-----------------------------|--|---------------------------|--------------|-------------------|-----------------|-------|------------------|---------------------------|--------------|-------------------|-----------------|-------------------------------------------------------------------------|------------------|---------------------------|--------------|-------------------|-----------------|------------------|-----|
| Sample Analysis Report      |  |                           |              |                   |                 |       |                  |                           |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| Sample Name                 |  | PLOT 110 - 4 JARS         |              |                   |                 |       |                  | Sampling Date             |              | 25-May-24         |                 | <div>Approved:<br/>S.Sarhaddi<br/>--e-signature--<br/>14-Aug-2024</div> |                  |                           |              |                   |                 |                  |     |
| ALS Sample ID               |  | L2756078-6                |              |                   |                 |       |                  | Extraction Date           |              | 6-Jul-24          |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| Analysis Method             |  | EPA 1668C                 |              |                   |                 |       |                  | Sample Size               |              | 2.95 g dwt        |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| Analysis Type               |  | Sample                    |              |                   |                 |       |                  | Percent Moisture          |              | 71.5%             |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| Sample Matrix               |  | Tissue                    |              |                   |                 |       |                  | Split Ratio               |              | 4                 |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| Run Information             |  | Run 1                     |              |                   |                 |       |                  | Run 2                     |              |                   |                 |                                                                         |                  | Run 3                     |              |                   |                 |                  |     |
| Filename                    |  | 6-240714A19               |              |                   |                 |       |                  | 6-240718A25               |              |                   |                 |                                                                         |                  | 6-240810A13               |              |                   |                 |                  |     |
| Run Date                    |  | 14-Jul-24 21:13           |              |                   |                 |       |                  | 19-Jul-24 07:03           |              |                   |                 |                                                                         |                  | 10-Aug-24 23:10           |              |                   |                 |                  |     |
| Final Volume                |  | 25 ul                     |              |                   |                 |       |                  | 25 uL                     |              |                   |                 |                                                                         |                  | 10 uL                     |              |                   |                 |                  |     |
| Dilution Factor             |  | 1                         |              |                   |                 |       |                  | 10                        |              |                   |                 |                                                                         |                  | 1                         |              |                   |                 |                  |     |
| Analysis Units              |  | pg/g dwt                  |              |                   |                 |       |                  | pg/g dwt                  |              |                   |                 |                                                                         |                  | pg/g dwt                  |              |                   |                 |                  |     |
| Instrument - Column         |  | HRMS-6 SPBOCTYL-281311-07 |              |                   |                 |       |                  | HRMS-6 SPBOCTYL-283388-03 |              |                   |                 |                                                                         |                  | HRMS-6 SPBOCTYL-283388-03 |              |                   |                 |                  |     |
| Target Analytes             |  | TEF<br>(WHO 2005)         | Ret.<br>Time | Conc.<br>pg/g dwt | EDL<br>pg/g dwt | Flags | EMPC<br>pg/g dwt | LQL                       | Ret.<br>Time | Conc.<br>pg/g dwt | EDL<br>pg/g dwt | Flags                                                                   | EMPC<br>pg/g dwt | LQL                       | Ret.<br>Time | Conc.<br>pg/g dwt | EDL<br>pg/g dwt | EMPC<br>pg/g dwt | LQL |
| PCB-088/091                 |  |                           | 20.18        | 15.6              | 4.6             | J     |                  | 34                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-084                     |  |                           | NotFnd       | <4.8              | 4.8             | U     |                  | 34                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-089                     |  |                           | NotFnd       | <5.7              | 5.7             | U     |                  | 34                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-121                     |  |                           | NotFnd       | <3.2              | 3.2             | U     |                  | 34                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-092                     |  |                           | 20.92        | 187               | 5.2             |       |                  | 34                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-090/101/113             |  |                           | 21.22        | 505               | 3.7             |       |                  | 34                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-083/099                 |  |                           | 21.54        | 2560              | 4.8             |       |                  | 34                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-112                     |  |                           | NotFnd       | <3.0              | 3.0             | U     |                  | 34                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-086/087/097/109/119/125 |  |                           | 21.80        | 133               | 3.6             | M     |                  | 34                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-085/110/115/116/117     |  |                           | 22.32        | 636               | 3.4             | M     |                  | 34                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-082                     |  |                           | 22.47        | <5.9              | 5.9             | U     | 3.1              | 34                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-111                     |  |                           | 22.60        | <16               | 3.0             | J,R   | 16               | 34                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-120                     |  |                           | 22.84        | 61.7              | 3.1             |       |                  | 34                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-108/124                 |  |                           | 23.49        | <26               | 3.3             | J,R   | 26               | 34                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-107                     |  |                           | 23.61        | 577               | 3.3             | M     |                  | 34                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-123                     |  | 0.00003                   | 23.66        | <45               | 3.8             | M,R   | 45               | 34                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-106                     |  |                           | NotFnd       | <3.6              | 3.6             | U     |                  | 34                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-118                     |  | 0.00003                   | 23.84        | 11100             | 2.8             |       |                  | 34                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-122                     |  |                           | NotFnd       | <4.3              | 4.3             | U     |                  | 34                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-114                     |  | 0.00003                   | 24.16        | 207               | 3.8             |       |                  | 34                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-105                     |  | 0.00003                   | 24.51        | 1890              | 3.7             |       |                  | 34                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-127                     |  |                           | 25.23        | <3.7              | 3.2             | J,R   | 3.7              | 34                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-126                     |  | 0.1                       |              |                   |                 |       |                  |                           |              |                   |                 |                                                                         |                  |                           | 26.08        | 191               | 0.85            |                  | 14  |
| PCB-155                     |  |                           | 21.08        | <1.2              | 1.2             | U     |                  | 34                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-152                     |  |                           | 21.29        | <2.3              | 2.3             | U     | 0.73             | 34                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-150                     |  |                           | NotFnd       | <1.8              | 1.8             | U     |                  | 34                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-136                     |  |                           | 21.58        | 4.83              | 2.1             | J     |                  | 34                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-145                     |  |                           | NotFnd       | <2.0              | 2.0             | U     |                  | 34                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-148                     |  |                           | 22.40        | 8.24              | 2.7             | J     |                  | 34                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-135/151                 |  |                           | 22.76        | 277               | 2.7             |       |                  | 34                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-154                     |  |                           | 22.83        | 104               | 2.1             |       |                  | 34                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-144                     |  |                           | 23.06        | 16.0              | 2.8             | J     |                  | 34                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-147/149                 |  |                           | 23.25        | 545               | 9.0             |       |                  | 34                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-134/143                 |  |                           | 23.40        | <11               | 11              | U     | 10               | 34                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-139/140                 |  |                           | 23.54        | 55.6              | 8.7             |       |                  | 34                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-131                     |  |                           | NotFnd       | <11               | 11              | U     |                  | 34                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-142                     |  |                           | NotFnd       | <11               | 11              | U     |                  | 34                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-132                     |  |                           | 23.95        | 85.3              | 11              |       |                  | 34                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-133                     |  |                           | 24.11        | 363               | 10              |       |                  | 34                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-165                     |  |                           | 24.33        | 23.6              | 7.5             | J     |                  | 34                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-146                     |  |                           | 24.45        | 2010              | 8.3             |       |                  | 34                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-161                     |  |                           | NotFnd       | <6.2              | 6.2             | U     |                  | 34                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-153/168                 |  |                           | 24.76        | 13800             | 6.9             |       |                  | 34                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-141                     |  |                           | 24.91        | 271               | 8.6             |       |                  | 34                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-130                     |  |                           | 25.14        | 704               | 11              |       |                  | 34                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-137/164                 |  |                           | 25.23        | 220               | 7.5             | M     |                  | 34                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-129/138/163             |  |                           | 25.46        | 10300             | 8.3             |       |                  | 34                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-160                     |  |                           | NotFnd       | <6.9              | 6.9             | U     |                  | 34                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-158                     |  |                           | 25.66        | 553               | 5.5             |       |                  | 34                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-128/166                 |  |                           | 26.16        | 844               | 7.3             |       |                  | 34                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-159                     |  |                           | 26.57        | <11               | 6.1             | J,R   | 11               | 34                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-162                     |  |                           | 26.72        | 83.1              | 6.5             |       |                  | 34                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-167                     |  | 0.00003                   | 26.97        | 970               | 5.3             |       |                  | 34                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-156/157                 |  | 0.00003                   | 27.60        | 1940              | 8.6             |       |                  | 68                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-169                     |  | 0.03                      |              |                   |                 |       |                  |                           |              |                   |                 |                                                                         |                  |                           | 29.24        | 10.9              | 0.88            | J                | 14  |
| PCB-188                     |  |                           | 24.06        | <4.1              | 4.1             | U     | 1.5              | 34                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-179                     |  |                           | 24.31        | 16.8              | 5.1             | J     |                  | 34                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-184                     |  |                           | 24.51        | <4.7              | 4.7             | U     | 0.40             | 34                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-176                     |  |                           | 24.75        | <4.9              | 4.9             | U     | 4.0              | 34                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-186                     |  |                           | NotFnd       | <5.3              | 5.3             | U     |                  | 34                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-178                     |  |                           | 25.64        | 1480              | 7.0             |       |                  | 34                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-175                     |  |                           | 25.97        | 55.5              | 6.8             |       |                  | 34                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-187                     |  |                           | 26.10        | 7310              | 6.1             |       |                  | 34                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-182                     |  |                           | NotFnd       | <6.1              | 6.1             | U     |                  | 34                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-183                     |  |                           | 26.42        | 1720              | 6.1             |       |                  | 34                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-185                     |  |                           | 26.53        | <57               | 7.2             | R     | 57               | 34                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-174                     |  |                           | 26.60        | 186               | 6.2             |       |                  | 34                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-177                     |  |                           | 26.83        | 3370              | 6.8             |       |                  | 34                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-181                     |  |                           | 27.01        | <11               | 6.8             | J,R   | 11               | 34                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |
| PCB-171/173                 |  |                           |              |                   |                 |       |                  |                           | 27.14        | 480               | 41              |                                                                         |                  | 340                       |              |                   |                 |                  |     |
| PCB-172                     |  |                           | 27.93        | 1290              | 6.5             |       |                  | 34                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |                  |     |

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## Sample Analysis Report

|                 |                   |                  |           |       |                                                            |
|-----------------|-------------------|------------------|-----------|-------|------------------------------------------------------------|
| Sample Name     | PLOT 110 - 4 JARS | Sampling Date    | 25-May-24 | g dwt | Approved:<br>S. Sarhaddi<br>--e-signature--<br>14-Aug-2024 |
| ALS Sample ID   | L2756078-6        | Extraction Date  | 6-Jul-24  |       |                                                            |
| Analysis Method | EPA 1668C         | Sample Size      | 2.95      |       |                                                            |
| Analysis Type   | Sample            | Percent Moisture | 71.5%     |       |                                                            |
| Sample Matrix   | Tissue            | Split Ratio      | 4         |       |                                                            |

| Run Information     | Run 1                     | Run 2                     | Run 3                     |
|---------------------|---------------------------|---------------------------|---------------------------|
| Filename            | 6-240714A19               | 6-240718A25               | 6-240810A13               |
| Run Date            | 14-Jul-24 21:13           | 19-Jul-24 07:03           | 10-Aug-24 23:10           |
| Final Volume        | 25 ul                     | 25 uL                     | 10 uL                     |
| Dilution Factor     | 1                         | 10                        | 1                         |
| Analysis Units      | pg/g dwt                  | pg/g dwt                  | pg/g dwt                  |
| Instrument - Column | HRMS-6 SPBOCTYL-281311-07 | HRMS-6 SPBOCTYL-283388-03 | HRMS-6 SPBOCTYL-283388-03 |

| Target Analytes      |  |           |               |             |        |     | Reference Values |  |               |             |       |     |           | Sample Results |               |             |       |     |  |  |
|----------------------|--|-----------|---------------|-------------|--------|-----|------------------|--|---------------|-------------|-------|-----|-----------|----------------|---------------|-------------|-------|-----|--|--|
| TEF (WHO 2005)       |  | Ret. Time | Conc. pg/g dw | EDL pg/g dw | Flags  | LQL | Ret. Time        |  | Conc. pg/g dw | EDL pg/g dw | Flags | LQL | Ret. Time |                | Conc. pg/g dw | EDL pg/g dw | Flags | LQL |  |  |
| PCB-192              |  | NotFnd    | <5.4          | 5.4         | U      | 34  |                  |  |               |             |       |     |           |                |               |             |       |     |  |  |
| PCB-180/193          |  | 28.27     | 15900         | 5.3         |        | 34  |                  |  |               |             |       |     |           |                |               |             |       |     |  |  |
| PCB-191              |  | 28.45     | 78.7          | 4.5         |        | 34  |                  |  |               |             |       |     |           |                |               |             |       |     |  |  |
| PCB-170              |  | 28.97     | 3070          | 6.3         |        | 34  |                  |  |               |             |       |     |           |                |               |             |       |     |  |  |
| PCB-190              |  | 29.23     | 1520          | 4.0         |        | 34  |                  |  |               |             |       |     |           |                |               |             |       |     |  |  |
| PCB-189              |  | 0.00003   | 404           | 2.2         |        | 34  |                  |  |               |             |       |     |           |                |               |             |       |     |  |  |
| PCB-202              |  | 26.85     | 402           | 1.3         |        | 34  |                  |  |               |             |       |     |           |                |               |             |       |     |  |  |
| PCB-201              |  | 27.32     | <67           | 1.5         | R      | 67  |                  |  |               |             |       |     |           |                |               |             |       |     |  |  |
| PCB-204              |  | NotFnd    | <1.4          | 1.4         | U      | 34  |                  |  |               |             |       |     |           |                |               |             |       |     |  |  |
| PCB-197              |  | 27.78     | 46.5          | 1.6         |        | 34  |                  |  |               |             |       |     |           |                |               |             |       |     |  |  |
| PCB-200              |  | 27.90     | 4.42          | 1.6         | J      | 34  |                  |  |               |             |       |     |           |                |               |             |       |     |  |  |
| PCB-198/199          |  | 29.27     | 4870          | 2.0         |        | 34  |                  |  |               |             |       |     |           |                |               |             |       |     |  |  |
| PCB-196              |  | 29.60     | 635           | 1.9         |        | 34  |                  |  |               |             |       |     |           |                |               |             |       |     |  |  |
| PCB-203              |  | 29.70     | 2550          | 1.8         |        | 34  |                  |  |               |             |       |     |           |                |               |             |       |     |  |  |
| PCB-195              |  | 30.44     | 1160          | 2.5         |        | 34  |                  |  |               |             |       |     |           |                |               |             |       |     |  |  |
| PCB-194              |  | 31.70     | 4960          | 2.3         |        | 34  |                  |  |               |             |       |     |           |                |               |             |       |     |  |  |
| PCB-205              |  | 31.99     | 275           | 2.2         |        | 34  |                  |  |               |             |       |     |           |                |               |             |       |     |  |  |
| PCB-208              |  |           |               |             |        |     | 30.29            |  | 134           | 36          | M,J   |     | 340       |                |               |             |       |     |  |  |
| PCB-207              |  | 30.75     | 56.2          | 1.7         |        | 34  |                  |  |               |             |       |     |           |                |               |             |       |     |  |  |
| PCB-206              |  | 33.12     | 944           | 2.1         |        | 34  |                  |  |               |             |       |     |           |                |               |             |       |     |  |  |
| PCB-209              |  | 34.30     | 115           | 0.69        |        | 34  |                  |  |               |             |       |     |           |                |               |             |       |     |  |  |
| Extraction Standards |  | pg        | Time          | % Rec       | Limits |     | Time             |  | % Rec         | Limits      |       |     | Time      |                | % Rec         | Limits      |       |     |  |  |
| 13C12-PCB-001        |  | 4000      | 9.39          | 36          | 5-145  |     |                  |  |               |             |       |     |           |                |               |             |       |     |  |  |
| 13C12-PCB-003        |  | 4000      | 10.96         | 41          | 5-145  |     |                  |  |               |             |       |     |           |                |               |             |       |     |  |  |
| 13C12-PCB-004        |  | 4000      | 11.13         | 49          | 5-145  |     |                  |  |               |             |       |     |           |                |               |             |       |     |  |  |
| 13C12-PCB-015        |  | 4000      | 14.87         | 55          | 5-145  |     |                  |  |               |             |       |     |           |                |               |             |       |     |  |  |
| 13C12-PCB-019        |  | 4000      | 13.16         | 52          | 5-145  |     |                  |  |               |             |       |     |           |                |               |             |       |     |  |  |
| 13C12-PCB-037        |  | 4000      | 18.83         | 62          | 5-145  |     |                  |  |               |             |       |     |           |                |               |             |       |     |  |  |
| 13C12-PCB-054        |  | 4000      | 15.04         | 55          | 5-145  |     |                  |  |               |             |       |     |           |                |               |             |       |     |  |  |
| 13C12-PCB-081        |  | 4000      | 22.40         | 82          | 10-145 |     |                  |  |               |             |       |     |           |                |               |             |       |     |  |  |
| 13C12-PCB-077        |  | 4000      | 22.70         | 81          | 10-145 |     |                  |  |               |             |       |     |           |                |               |             |       |     |  |  |
| 13C12-PCB-104        |  | 4000      | 18.09         | 82          | 10-145 |     |                  |  |               |             |       |     |           |                |               |             |       |     |  |  |
| 13C12-PCB-123        |  | 4000      | 23.66         | 91          | 10-145 |     |                  |  |               |             |       |     |           |                |               |             |       |     |  |  |
| 13C12-PCB-118        |  | 4000      | 23.83         | 106         | 10-145 |     |                  |  |               |             |       |     |           |                |               |             |       |     |  |  |
| 13C12-PCB-114        |  | 4000      | 24.15         | 86          | 10-145 |     |                  |  |               |             |       |     |           |                |               |             |       |     |  |  |
| 13C12-PCB-105        |  | 4000      | 24.50         | 90          | 10-145 |     |                  |  |               |             |       |     |           |                |               |             |       |     |  |  |
| 13C12-PCB-126        |  | 4000      |               |             |        |     |                  |  |               |             |       |     | 26.07     |                | 55            | 10-145      |       |     |  |  |
| 13C12-PCB-155        |  | 4000      | 21.06         | 87          | 10-145 |     |                  |  |               |             |       |     |           |                |               |             |       |     |  |  |
| 13C12-PCB-167        |  | 4000      | 26.96         | 88          | 10-145 |     |                  |  |               |             |       |     |           |                |               |             |       |     |  |  |
| 13C12-PCB-156/157    |  | 8000      | 27.61         | 82          | 10-145 |     |                  |  |               |             |       |     |           |                |               |             |       |     |  |  |
| 13C12-PCB-169        |  | 4000      |               |             |        |     |                  |  |               |             |       |     | 29.23     |                | 75            | 10-145      |       |     |  |  |
| 13C12-PCB-188        |  | 4000      | 24.06         | 82          | 10-145 |     |                  |  |               |             |       |     |           |                |               |             |       |     |  |  |
| 13C12-PCB-189        |  | 4000      | 30.52         | 81          | 10-145 |     |                  |  |               |             |       |     |           |                |               |             |       |     |  |  |
| 13C12-PCB-202        |  | 4000      | 26.84         | 89          | 10-145 |     |                  |  |               |             |       |     |           |                |               |             |       |     |  |  |
| 13C12-PCB-205        |  | 4000      | 31.98         | 90          | 10-145 |     |                  |  |               |             |       |     |           |                |               |             |       |     |  |  |
| 13C12-PCB-208        |  | 4000      |               |             |        |     | 30.27            |  | 78            | 10-145      | R     |     |           |                |               |             |       |     |  |  |
| 13C12-PCB-206        |  | 4000      | 33.09         | 92          | 10-145 |     |                  |  |               |             |       |     |           |                |               |             |       |     |  |  |
| 13C12-PCB-209        |  | 4000      | 34.27         | 99          | 10-145 |     |                  |  |               |             |       |     |           |                |               |             |       |     |  |  |
| Cleanup Standards    |  |           |               |             |        |     |                  |  |               |             |       |     |           |                |               |             |       |     |  |  |
| 13C12-PCB-028        |  | 4000      | 16.56         | 59          | 5-145  |     |                  |  |               |             |       |     |           |                |               |             |       |     |  |  |
| 13C12-PCB-111        |  | 4000      | 22.59         | 80          | 10-145 |     |                  |  |               |             |       |     |           |                |               |             |       |     |  |  |
| 13C12-PCB-178        |  | 4000      | 25.63         | 84          | 10-145 |     |                  |  |               |             |       |     |           |                |               |             |       |     |  |  |

| ALS Life Sciences              |  |                                                                                                                                                   |      |          |          |       |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |       |  |
|--------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|----------|-------|----------|---------------------------|-------|-----------|----------|-------------------------------------------------------------------------|------|---------------------------------|-----|----------|----------|-------|----------|-------|--|
| Sample Analysis Report         |  |                                                                                                                                                   |      |          |          |       |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |       |  |
| Sample Name                    |  | PLOT 110 - 4 JARS                                                                                                                                 |      |          |          |       |          | Sampling Date             |       | 25-May-24 |          | <div>Approved:<br/>S.Sarhaddi<br/>--e-signature--<br/>14-Aug-2024</div> |      |                                 |     |          |          |       |          |       |  |
| ALS Sample ID                  |  | L2756078-6                                                                                                                                        |      |          |          |       |          | Extraction Date           |       | 6-Jul-24  |          |                                                                         |      |                                 |     |          |          |       |          |       |  |
| Analysis Method                |  | EPA 1668C                                                                                                                                         |      |          |          |       |          | Sample Size               |       | 2.95      |          |                                                                         |      |                                 |     |          |          |       |          | g dwt |  |
| Analysis Type                  |  | Sample                                                                                                                                            |      |          |          |       |          | Percent Moisture          |       | 71.5%     |          |                                                                         |      |                                 |     |          |          |       |          |       |  |
| Sample Matrix                  |  | Tissue                                                                                                                                            |      |          |          |       |          | Split Ratio               |       | 4         |          |                                                                         |      |                                 |     |          |          |       |          |       |  |
| Run Information                |  | Run 1                                                                                                                                             |      |          |          |       |          | Run 2                     |       |           |          |                                                                         |      | Run 3                           |     |          |          |       |          |       |  |
| Filename                       |  | 6-240714A19                                                                                                                                       |      |          |          |       |          | 6-240718A25               |       |           |          |                                                                         |      | 6-240810A13                     |     |          |          |       |          |       |  |
| Run Date                       |  | 14-Jul-24 21:13                                                                                                                                   |      |          |          |       |          | 19-Jul-24 07:03           |       |           |          |                                                                         |      | 10-Aug-24 23:10                 |     |          |          |       |          |       |  |
| Final Volume                   |  | 25 ul                                                                                                                                             |      |          |          |       |          | 25 uL                     |       |           |          |                                                                         |      | 10 uL                           |     |          |          |       |          |       |  |
| Dilution Factor                |  | 1                                                                                                                                                 |      |          |          |       |          | 10                        |       |           |          |                                                                         |      | 1                               |     |          |          |       |          |       |  |
| Analysis Units                 |  | pg/g dwt                                                                                                                                          |      |          |          |       |          | pg/g dwt                  |       |           |          |                                                                         |      | pg/g dwt                        |     |          |          |       |          |       |  |
| Instrument - Column            |  | HRMS-6 SPBOCTYL-281311-07                                                                                                                         |      |          |          |       |          | HRMS-6 SPBOCTYL-283388-03 |       |           |          |                                                                         |      | HRMS-6 SPBOCTYL-283388-03       |     |          |          |       |          |       |  |
| Target Analytes                |  | TEF                                                                                                                                               | Ret. | Conc.    | EDL      | EMPC  |          | Ret.                      | Conc. | EDL       | EMPC     |                                                                         | Ret. | Conc.                           | EDL | EMPC     |          |       |          |       |  |
|                                |  | (WHO 2005)                                                                                                                                        | Time | pg/g dwt | pg/g dwt | Flags | pg/g dwt |                           | LQL   | pg/g dwt  | pg/g dwt | Flags                                                                   |      | pg/g dwt                        | LQL | pg/g dwt | pg/g dwt | Flags | pg/g dwt | LQL   |  |
| Homologue Group Totals         |  |                                                                                                                                                   |      | pg/g dwt | pg/g dwt | Flags |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |       |  |
| Total MonoCB                   |  |                                                                                                                                                   |      | <2.0     | 2.0      | U     |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |       |  |
| Total DiCB                     |  |                                                                                                                                                   |      | 89.9     | 6.1      | J     |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |       |  |
| Total TriCB                    |  |                                                                                                                                                   |      | 429      | 1.8      | J     |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |       |  |
| Total TetraCB                  |  |                                                                                                                                                   |      | 2450     | 1.5      | J     |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |       |  |
| Total PentaCB                  |  |                                                                                                                                                   |      | 18200    | 0.85     | J     |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |       |  |
| Total HexaCB                   |  |                                                                                                                                                   |      | 33200    | 0.88     | J     |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |       |  |
| Total HeptaCB                  |  |                                                                                                                                                   |      | 36900    | 2.2      | J     |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |       |  |
| Total OctaCB                   |  |                                                                                                                                                   |      | 15000    | 1.3      | J     |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |       |  |
| Total NonaCB                   |  |                                                                                                                                                   |      | 1130     | 1.7      | J     |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |       |  |
| DecaCB                         |  |                                                                                                                                                   |      | 115      | 0.69     | J     |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |       |  |
| Total PCB                      |  |                                                                                                                                                   |      | 108000   |          | J     |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |       |  |
| Toxic Equivalency - (WHO 2005) |  |                                                                                                                                                   |      |          |          |       |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |       |  |
| Lower Bound PCB TEQ            |  |                                                                                                                                                   |      | 19.9     |          |       |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |       |  |
| Mid Point PCB TEQ              |  |                                                                                                                                                   |      | 19.9     |          |       |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |       |  |
| Upper Bound PCB TEQ            |  |                                                                                                                                                   |      | 19.9     |          |       |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |       |  |
| EDL                            |  | Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.                                   |      |          |          |       |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |       |  |
| TEF                            |  | Indicates the Toxic Equivalency Factor                                                                                                            |      |          |          |       |          |                           |       |           |          | TEQ                                                                     |      | Indicates the Toxic Equivalency |     |          |          |       |          |       |  |
| LQL                            |  | Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.                                |      |          |          |       |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |       |  |
| M                              |  | Indicates that a peak has been manually integrated.                                                                                               |      |          |          |       |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |       |  |
| U                              |  | Indicates that this compound was not detected above the EDL.                                                                                      |      |          |          |       |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |       |  |
| J                              |  | Indicates that the analyte was positively identified. The associated numerical result is an estimate.                                             |      |          |          |       |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |       |  |
| R                              |  | Indicates that the ion abundance ratio for this analyte did not meet the control limit. The reported value represents an estimated concentration. |      |          |          |       |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |       |  |
| EMPC                           |  | Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure                          |      |          |          |       |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |       |  |



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## Sample Analysis Report

|                    |                          |                  |           |       |                                                                                 |
|--------------------|--------------------------|------------------|-----------|-------|---------------------------------------------------------------------------------|
| <b>Sample Name</b> | <b>PLOT 114 - 4 JARS</b> | Sampling Date    | 25-May-24 | g dwt | <div>Approved:<br/><i>S. Sarhaddi</i><br/>--e-signature--<br/>14-Aug-2024</div> |
| ALS Sample ID      | L2756078-7               | Extraction Date  | 6-Jul-24  |       |                                                                                 |
| Analysis Method    | EPA 1668C                | Sample Size      | 2.97      |       |                                                                                 |
| Analysis Type      | Sample                   | Percent Moisture | 71.5%     |       |                                                                                 |
| Sample Matrix      | Tissue                   | Split Ratio      | 4         |       |                                                                                 |

| Run Information     | Run 1                     | Run 2                     | Run 3                     |
|---------------------|---------------------------|---------------------------|---------------------------|
| Filename            | 6-240714A20               | 6-240718A26               | 6-240812C09               |
| Run Date            | 14-Jul-24 21:59           | 19-Jul-24 07:49           | 12-Aug-24 21:19           |
| Final Volume        | 25 ul                     | 25 uL                     | 10 uL                     |
| Dilution Factor     | 1                         | 10                        | 1                         |
| Analysis Units      | pg/g dwt                  | pg/g dwt                  | pg/g dwt                  |
| Instrument - Column | HRMS-6 SPBOCTYL-281311-07 | HRMS-6 SPBOCTYL-283388-03 | HRMS-6 SPBOCTYL-283388-03 |

| Target Analytes | TEF                 | Ret.   | Conc.    | EDL      |       | EMPC     | LQL |    | Ret. | Conc.    | EDL      |       | EMPC     | LQL |  | Ret. | Conc.    | EDL      |       | EMPC     | LQL |  |
|-----------------|---------------------|--------|----------|----------|-------|----------|-----|----|------|----------|----------|-------|----------|-----|--|------|----------|----------|-------|----------|-----|--|
|                 | (WHO 2005)          | Time   | pg/g dwt | pg/g dwt | Flags | pg/g dwt |     |    | Time | pg/g dwt | pg/g dwt | Flags | pg/g dwt |     |  | Time | pg/g dwt | pg/g dwt | Flags | pg/g dwt |     |  |
|                 | PCB-001             |        | 9.40     | <2.6     | 1.8   | M,J,R    | 2.6 | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-002             |        | NotFnd   | <2.0     | 2.0   | U        |     | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-003             |        | NotFnd   | <2.2     | 2.2   | U        |     | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-004             |        | NotFnd   | <13      | 13    | U        |     | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-010             |        | NotFnd   | <7.5     | 7.5   | U        |     | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-009             |        | NotFnd   | <7.9     | 7.9   | U        |     | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-007             |        | NotFnd   | <7.8     | 7.8   | U        |     | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-006             |        | NotFnd   | <7.8     | 7.8   | U        |     | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-005             |        | NotFnd   | <8.3     | 8.3   | U        |     | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-008             |        | NotFnd   | <7.3     | 7.3   | U        |     | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-014             |        | NotFnd   | <16      | 16    | U        |     | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-011             |        | 14.48    | <130     | 16    | R        | 130 | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-012/013         |        | NotFnd   | <15      | 15    | U        |     | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-015             |        | 14.88    | <17      | 17    | U        | 13  | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-019             |        | NotFnd   | <4.0     | 4.0   | U        |     | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-018/030         |        | 14.29    | 24.2     | 3.9   | J        |     | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-017             |        | 14.54    | <5.8     | 4.5   | J,R      | 5.8 | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-027             |        | NotFnd   | <3.3     | 3.3   | U        |     | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-024             |        | NotFnd   | <3.8     | 3.8   | U        |     | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-016             |        | 14.85    | 14.0     | 5.1   | J        |     | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-032             |        | 15.12    | 7.22     | 3.0   | M,J      |     | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-034             |        | NotFnd   | <4.7     | 4.7   | U        |     | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-023             |        | NotFnd   | <4.6     | 4.6   | U        |     | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-026/029         |        | 16.08    | <5.2     | 4.3   | J,R      | 5.2 | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-025             |        | NotFnd   | <4.2     | 4.2   | U        |     | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-031             |        | 16.41    | <22      | 4.0   | J,R      | 22  | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-020/028         |        | NotFnd   | <4.5     | 4.5   | U        |     | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-021/033         |        | 16.73    | 22.5     | 4.3   | J        |     | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-022             |        | 16.96    | <12      | 4.8   | J,R      | 12  | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-036             |        | NotFnd   | <4.1     | 4.1   | U        |     | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-039             |        | NotFnd   | <4.9     | 4.9   | U        |     | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-038             |        | NotFnd   | <4.7     | 4.7   | U        |     | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-035             |        | 18.62    | <4.8     | 4.8   | U        | 2.5 | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-037             |        | 18.84    | <37      | 5.2   | R        | 37  | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-054             |        | NotFnd   | <1.2     | 1.2   | U        |     | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-050/053         |        | 16.26    | <2.4     | 2.4   | U        | 1.3 | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-045/051         |        | 16.66    | 4.72     | 2.6   | M,J      |     | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-046             |        | 16.82    | <2.8     | 2.8   | U        | 1.1 | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-052             |        | 17.57    | 42.8     | 2.5   |          |     | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-073             |        | NotFnd   | <1.8     | 1.8   | U        |     | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-043             |        | NotFnd   | <2.9     | 2.9   | U        |     | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-049/069         |        | 17.83    | <9.6     | 2.1   | J,R      | 9.6 | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-048             |        | 18.00    | 3.08     | 2.5   | J        |     | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-044/047/065     |        | 18.16    | <33      | 2.1   | J,R      | 33  | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-059/062/075     |        | 18.31    | <6.4     | 1.8   | J,R      | 6.4 | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-042             |        | 18.44    | <2.8     | 2.8   | U        | 2.4 | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-040/041/071     |        | 18.74    | <7.4     | 2.5   | M,J,R    | 7.4 | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-064             |        | 18.84    | <13      | 1.8   | J,R      | 13  | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-072             |        | NotFnd   | <3.6     | 3.6   | U        |     | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-068             |        | NotFnd   | <3.6     | 3.6   | U        |     | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-057             |        | NotFnd   | <3.8     | 3.8   | U        |     | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-058             |        | NotFnd   | <3.7     | 3.7   | U        |     | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-067             |        | NotFnd   | <3.1     | 3.1   | U        |     | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-063             |        | 19.98    | <14      | 3.6   | J,R      | 14  | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-061/070/074/076 |        | 20.21    | 677      | 3.5   |          |     | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-066             |        | 20.36    | <140     | 3.6   | R        | 140 | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-055             |        | NotFnd   | <4.0     | 4.0   | U        |     | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-056             |        | 20.75    | <16      | 3.5   | J,R      | 16  | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-060             |        | 20.87    | 113      | 3.8   |          |     | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-080             |        | NotFnd   | <3.0     | 3.0   | U        |     | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-079             |        | 21.84    | <8.5     | 3.2   | J,R      | 8.5 | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-078             |        | NotFnd   | <3.9     | 3.9   | U        |     | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-081             | 0.0003 | 22.41    | 16.9     | 3.9   | J        |     | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-077             | 0.0001 | 22.72    | 277      | 3.9   |          |     | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-104             |        | NotFnd   | <2.3     | 2.3   | U        |     | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-096             |        | NotFnd   | <3.1     | 3.1   | U        |     | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-103             |        | NotFnd   | <5.4     | 5.4   | U        |     | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-094             |        | NotFnd   | <5.8     | 5.8   | U        |     | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-095             |        | 19.73    | 60.3     | 6.6   |          |     | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |
|                 | PCB-093/098/100/102 |        | NotFnd   | <5.1     | 5.1   | U        |     | 34 |      |          |          |       |          |     |  |      |          |          |       |          |     |  |

ALS Life Sciences

## Sample Analysis Report

|                    |                          |                  |           |       |                                                                                |
|--------------------|--------------------------|------------------|-----------|-------|--------------------------------------------------------------------------------|
| <b>Sample Name</b> | <b>PLOT 114 - 4 JARS</b> | Sampling Date    | 25-May-24 | g dwt | <div>Approved:<br/><i>S.Sarhaddi</i><br/>--e-signature--<br/>14-Aug-2024</div> |
| ALS Sample ID      | L2756078-7               | Extraction Date  | 6-Jul-24  |       |                                                                                |
| Analysis Method    | EPA 1668C                | Sample Size      | 2.97      |       |                                                                                |
| Analysis Type      | Sample                   | Percent Moisture | 71.5%     |       |                                                                                |
| Sample Matrix      | Tissue                   | Split Ratio      | 4         |       |                                                                                |

| Run Information     | Run 1                     | Run 2                     | Run 3                     |
|---------------------|---------------------------|---------------------------|---------------------------|
| Filename            | 6-240714A20               | 6-240718A26               | 6-240812C09               |
| Run Date            | 14-Jul-24 21:59           | 19-Jul-24 07:49           | 12-Aug-24 21:19           |
| Final Volume        | 25 ul                     | 25 uL                     | 10 uL                     |
| Dilution Factor     | 1                         | 10                        | 1                         |
| Analysis Units      | pg/g dwt                  | pg/g dwt                  | pg/g dwt                  |
| Instrument - Column | HRMS-6 SPBOCTYL-281311-07 | HRMS-6 SPBOCTYL-283388-03 | HRMS-6 SPBOCTYL-283388-03 |

| PCB Analytes                |                   |              |                   |                 |       |                  |     | PCB Analytes                |              |                   |                 |       |                  |      |                 | PCB Analytes                |                   |                 |       |                  |     |      |    |
|-----------------------------|-------------------|--------------|-------------------|-----------------|-------|------------------|-----|-----------------------------|--------------|-------------------|-----------------|-------|------------------|------|-----------------|-----------------------------|-------------------|-----------------|-------|------------------|-----|------|----|
| Target Analytes             | TEF<br>(WHO 2005) | Ret.<br>Time | Conc.<br>pg/g dwt | EDL<br>pg/g dwt | Flags | EMPC<br>pg/g dwt | LQL | Target Analytes             | Ret.<br>Time | Conc.<br>pg/g dwt | EDL<br>pg/g dwt | Flags | EMPC<br>pg/g dwt | LQL  | Target Analytes | Ret.<br>Time                | Conc.<br>pg/g dwt | EDL<br>pg/g dwt | Flags | EMPC<br>pg/g dwt | LQL |      |    |
| PCB-088/091                 |                   | 20.18        | <10               | 5.5             | J,R   | 10               | 34  | PCB-088/091                 |              | 20.18             | <10             | 5.5   | J,R              | 10   | 34              | PCB-088/091                 |                   | 20.18           | <10   | 5.5              | J,R | 10   | 34 |
| PCB-084                     |                   | 20.35        | <11               | 5.7             | J,R   | 11               | 34  | PCB-084                     |              | 20.35             | <11             | 5.7   | J,R              | 11   | 34              | PCB-084                     |                   | 20.35           | <11   | 5.7              | J,R | 11   | 34 |
| PCB-089                     |                   | NotFnd       | <6.8              | 6.8             | U     |                  | 34  | PCB-089                     |              | NotFnd            | <6.8            | 6.8   | U                |      | 34              | PCB-089                     |                   | NotFnd          | <6.8  | 6.8              | U   |      | 34 |
| PCB-121                     |                   | NotFnd       | <3.8              | 3.8             | U     |                  | 34  | PCB-121                     |              | NotFnd            | <3.8            | 3.8   | U                |      | 34              | PCB-121                     |                   | NotFnd          | <3.8  | 3.8              | U   |      | 34 |
| PCB-092                     |                   | 20.93        | 58.3              | 6.1             |       |                  | 34  | PCB-092                     |              | 20.93             | 58.3            | 6.1   |                  |      | 34              | PCB-092                     |                   | 20.93           | 58.3  | 6.1              |     |      | 34 |
| PCB-090/101/113             |                   | 21.23        | 209               | 4.4             |       |                  | 34  | PCB-090/101/113             |              | 21.23             | 209             | 4.4   |                  |      | 34              | PCB-090/101/113             |                   | 21.23           | 209   | 4.4              |     |      | 34 |
| PCB-083/099                 |                   | 21.54        | 714               | 5.7             |       |                  | 34  | PCB-083/099                 |              | 21.54             | 714             | 5.7   |                  |      | 34              | PCB-083/099                 |                   | 21.54           | 714   | 5.7              |     |      | 34 |
| PCB-112                     |                   | 21.65        | <3.6              | 3.6             | U     | 2.3              | 34  | PCB-112                     |              | 21.65             | <3.6            | 3.6   | U                | 2.3  | 34              | PCB-112                     |                   | 21.65           | <3.6  | 3.6              | U   | 2.3  | 34 |
| PCB-086/087/097/109/119/125 |                   | 21.91        | 93.6              | 4.3             | M     |                  | 34  | PCB-086/087/097/109/119/125 |              | 21.91             | 93.6            | 4.3   | M                |      | 34              | PCB-086/087/097/109/119/125 |                   | 21.91           | 93.6  | 4.3              | M   |      | 34 |
| PCB-085/110/115/116/117     |                   | 22.33        | 508               | 4.1             | M     |                  | 34  | PCB-085/110/115/116/117     |              | 22.33             | 508             | 4.1   | M                |      | 34              | PCB-085/110/115/116/117     |                   | 22.33           | 508   | 4.1              | M   |      | 34 |
| PCB-082                     |                   | NotFnd       | <7.0              | 7.0             | U     |                  | 34  | PCB-082                     |              | NotFnd            | <7.0            | 7.0   | U                |      | 34              | PCB-082                     |                   | NotFnd          | <7.0  | 7.0              | U   |      | 34 |
| PCB-111                     |                   | 22.61        | <3.6              | 3.6             | U     | 2.8              | 34  | PCB-111                     |              | 22.61             | <3.6            | 3.6   | U                | 2.8  | 34              | PCB-111                     |                   | 22.61           | <3.6  | 3.6              | U   | 2.8  | 34 |
| PCB-120                     |                   | 22.84        | <14               | 3.7             | J,R   | 14               | 34  | PCB-120                     |              | 22.84             | <14             | 3.7   | J,R              | 14   | 34              | PCB-120                     |                   | 22.84           | <14   | 3.7              | J,R | 14   | 34 |
| PCB-108/124                 |                   | 23.49        | <23               | 7.3             | J,R   | 23               | 34  | PCB-108/124                 |              | 23.49             | <23             | 7.3   | J,R              | 23   | 34              | PCB-108/124                 |                   | 23.49           | <23   | 7.3              | J,R | 23   | 34 |
| PCB-107                     |                   | 23.61        | 274               | 7.2             | M     |                  | 34  | PCB-107                     |              | 23.61             | 274             | 7.2   | M                |      | 34              | PCB-107                     |                   | 23.61           | 274   | 7.2              | M   |      | 34 |
| PCB-123                     | 0.00003           | 23.67        | 23.7              | 8.1             | M,J   |                  | 34  | PCB-123                     | 0.00003      | 23.67             | 23.7            | 8.1   | M,J              |      | 34              | PCB-123                     | 0.00003           | 23.67           | 23.7  | 8.1              | M,J |      | 34 |
| PCB-106                     |                   | NotFnd       | <8.0              | 8.0             | U     |                  | 34  | PCB-106                     |              | NotFnd            | <8.0            | 8.0   | U                |      | 34              | PCB-106                     |                   | NotFnd          | <8.0  | 8.0              | U   |      | 34 |
| PCB-118                     | 0.00003           | 23.84        | 12000             | 6.4             |       |                  | 34  | PCB-118                     | 0.00003      | 23.84             | 12000           | 6.4   |                  |      | 34              | PCB-118                     | 0.00003           | 23.84           | 12000 | 6.4              |     |      | 34 |
| PCB-122                     |                   | NotFnd       | <9.6              | 9.6             | U     |                  | 34  | PCB-122                     |              | NotFnd            | <9.6            | 9.6   | U                |      | 34              | PCB-122                     |                   | NotFnd          | <9.6  | 9.6              | U   |      | 34 |
| PCB-114                     | 0.00003           | 24.16        | <170              | 8.2             | R     | 170              | 34  | PCB-114                     | 0.00003      | 24.16             | <170            | 8.2   | R                | 170  | 34              | PCB-114                     | 0.00003           | 24.16           | <170  | 8.2              | R   | 170  | 34 |
| PCB-105                     | 0.00003           | 24.52        | 1980              | 7.7             |       |                  | 34  | PCB-105                     | 0.00003      | 24.52             | 1980            | 7.7   |                  |      | 34              | PCB-105                     | 0.00003           | 24.52           | 1980  | 7.7              |     |      | 34 |
| PCB-127                     |                   | 25.23        | 11.3              | 7.0             | J     |                  | 34  | PCB-127                     |              | 25.23             | 11.3            | 7.0   | J                |      | 34              | PCB-127                     |                   | 25.23           | 11.3  | 7.0              | J   |      | 34 |
| PCB-126                     | 0.1               |              |                   |                 |       |                  |     | PCB-126                     | 0.1          |                   |                 |       |                  |      |                 | 26.11                       | 414               | 0.77            | M     |                  | 13  |      |    |
| PCB-155                     |                   | 21.11        | <0.95             | 0.95            | U     | 0.52             | 34  | PCB-155                     |              | 21.11             | <0.95           | 0.95  | U                | 0.52 | 34              | PCB-155                     |                   | 21.11           | <0.95 | 0.95             | U   | 0.52 | 34 |
| PCB-152                     |                   | NotFnd       | <1.9              | 1.9             | U     |                  | 34  | PCB-152                     |              | NotFnd            | <1.9            | 1.9   | U                |      | 34              | PCB-152                     |                   | NotFnd          | <1.9  | 1.9              | U   |      | 34 |
| PCB-150                     |                   | NotFnd       | <1.4              | 1.4             | U     |                  | 34  | PCB-150                     |              | NotFnd            | <1.4            | 1.4   | U                |      | 34              | PCB-150                     |                   | NotFnd          | <1.4  | 1.4              | U   |      | 34 |
| PCB-136                     |                   | 21.58        | <11               | 1.7             | J,R   | 11               | 34  | PCB-136                     |              | 21.58             | <11             | 1.7   | J,R              | 11   | 34              | PCB-136                     |                   | 21.58           | <11   | 1.7              | J,R | 11   | 34 |
| PCB-145                     |                   | 21.67        | <1.6              | 1.6             | U     |                  | 34  | PCB-145                     |              | 21.67             | <1.6            | 1.6   | U                |      | 34              | PCB-145                     |                   | 21.67           | <1.6  | 1.6              | U   |      | 34 |
| PCB-148                     |                   | 22.39        | <2.2              | 2.2             | U     |                  | 34  | PCB-148                     |              | 22.39             | <2.2            | 2.2   | U                |      | 34              | PCB-148                     |                   | 22.39           | <2.2  | 2.2              | U   |      | 34 |
| PCB-135/151                 |                   | 22.76        | 198               | 2.2             |       |                  | 34  | PCB-135/151                 |              | 22.76             | 198             | 2.2   |                  |      | 34              | PCB-135/151                 |                   | 22.76           | 198   | 2.2              |     |      | 34 |
| PCB-154                     |                   | NotFnd       | <1.7              | 1.7             | U     |                  | 34  | PCB-154                     |              | NotFnd            | <1.7            | 1.7   | U                |      | 34              | PCB-154                     |                   | NotFnd          | <1.7  | 1.7              | U   |      | 34 |
| PCB-144                     |                   | 23.06        | 15.8              | 2.2             | J     |                  | 34  | PCB-144                     |              | 23.06             | 15.8            | 2.2   | J                |      | 34              | PCB-144                     |                   | 23.06           | 15.8  | 2.2              | J   |      | 34 |
| PCB-147/149                 |                   | 23.25        | 335               | 8.3             |       |                  | 34  | PCB-147/149                 |              | 23.25             | 335             | 8.3   |                  |      | 34              | PCB-147/149                 |                   | 23.25           | 335   | 8.3              |     |      | 34 |
| PCB-134/143                 |                   | 23.38        | <14               | 10              | J,R   | 14               | 34  | PCB-134/143                 |              | 23.38             | <14             | 10    | J,R              | 14   | 34              | PCB-134/143                 |                   | 23.38           | <14   | 10               | J,R | 14   | 34 |
| PCB-139/140                 |                   | 23.55        | 32.9              | 7.9             | J     |                  | 34  | PCB-139/140                 |              | 23.55             | 32.9            | 7.9   | J                |      | 34              | PCB-139/140                 |                   | 23.55           | 32.9  | 7.9              | J   |      | 34 |
| PCB-131                     |                   | NotFnd       | <10               | 10              | U     |                  | 34  | PCB-131                     |              | NotFnd            | <10             | 10    | U                |      | 34              | PCB-131                     |                   | NotFnd          | <10   | 10               | U   |      | 34 |
| PCB-142                     |                   | NotFnd       | <10               | 10              | U     |                  | 34  | PCB-142                     |              | NotFnd            | <10             | 10    | U                |      | 34              | PCB-142                     |                   | NotFnd          | <10   | 10               | U   |      | 34 |
| PCB-132                     |                   | 23.96        | 110               | 9.8             |       |                  | 34  | PCB-132                     |              | 23.96             | 110             | 9.8   |                  |      | 34              | PCB-132                     |                   | 23.96           | 110   | 9.8              |     |      | 34 |
| PCB-133                     |                   | 24.11        | <120              | 9.2             | R     | 120              | 34  | PCB-133                     |              | 24.11             | <120            | 9.2   | R                | 120  | 34              | PCB-133                     |                   | 24.11           | <120  | 9.2              | R   | 120  | 34 |
| PCB-165                     |                   | 24.33        | <15               | 6.9             | J,R   | 15               | 34  | PCB-165                     |              | 24.33             | <15             | 6.9   | J,R              | 15   | 34              | PCB-165                     |                   | 24.33           | <15   | 6.9              | J,R | 15   | 34 |
| PCB-146                     |                   | 24.45        | 728               | 7.6             |       |                  | 34  | PCB-146                     |              | 24.45             | 728             | 7.6   |                  |      | 34              | PCB-146                     |                   | 24.45           | 728   | 7.6              |     |      | 34 |
| PCB-161                     |                   | NotFnd       | <5.7              | 5.7             | U     |                  | 34  | PCB-161                     |              | NotFnd            | <5.7            | 5.7   | U                |      | 34              | PCB-161                     |                   | NotFnd          | <5.7  | 5.7              | U   |      | 34 |
| PCB-153/168                 |                   | 24.76        | 10800             | 6.3             |       |                  | 34  | PCB-153/168                 |              | 24.76             | 10800           | 6.3   |                  |      | 34              | PCB-153/168                 |                   | 24.76           | 10800 | 6.3              |     |      | 34 |
| PCB-141                     |                   | 24.91        | <200              | 7.9             | R     | 200              | 34  | PCB-141                     |              | 24.91             | <200            | 7.9   | R                | 200  | 34              | PCB-141                     |                   | 24.91           | <200  | 7.9              | R   | 200  | 34 |
| PCB-130                     |                   | 25.14        | 422               | 9.8             |       |                  | 34  | PCB-130                     |              | 25.14             | 422             | 9.8   |                  |      | 34              | PCB-130                     |                   | 25.14           | 422   | 9.8              |     |      | 34 |
| PCB-137/164                 |                   | 25.23        | 149               | 6.9             | M     |                  | 34  | PCB-137/164                 |              | 25.23             | 149             | 6.9   | M                |      | 34              | PCB-137/164                 |                   | 25.23           | 149   | 6.9              | M   |      | 34 |
| PCB-129/138/163             |                   | 25.46        | 9860              | 7.6             |       |                  | 34  | PCB-129/138/163             |              | 25.46             | 9860            | 7.6   |                  |      | 34              | PCB-129/138/163             |                   | 25.46           | 9860  | 7.6              |     |      | 34 |
| PCB-160                     |                   | NotFnd       | <6.4              | 6.4             | U     |                  | 34  | PCB-160                     |              | NotFnd            | <6.4            | 6.4   | U                |      | 34              | PCB-160                     |                   | NotFnd          | <6.4  | 6.4              | U   |      | 34 |
| PCB-158                     |                   | 25.66        | 592               | 5.0             |       |                  | 34  | PCB-158                     |              | 25.66             | 592             | 5.0   |                  |      | 34              | PCB-158                     |                   | 25.66           | 592   | 5.0              |     |      | 34 |
| PCB-128/166                 |                   | 26.16        | 972               | 6.7             |       |                  | 34  | PCB-128/166                 |              | 26.16             | 972             | 6.7   |                  |      | 34              | PCB-128/166                 |                   | 26.16           | 972   | 6.7              |     |      | 34 |
| PCB-159                     |                   | 26.59        | <16               | 5.6             | J,R   | 16               | 34  | PCB-159                     |              | 26.59             | <16             | 5.6   | J,R              | 16   | 34              | PCB-159                     |                   | 26.59           | <16   | 5.6              | J,R | 16   | 34 |
| PCB-162                     |                   | 26.72        | 99.8              | 6.0             |       |                  | 34  | PCB-162                     |              | 26.72             | 99.8            | 6.0   |                  |      | 34              | PCB-162                     |                   | 26.72           | 99.8  | 6.0              |     |      | 34 |
| PCB-167                     | 0.00003           | 26.97        | 1710              | 5.1             |       |                  | 34  | PCB-167                     | 0.00003      | 26.97             | 1710            | 5.1   |                  |      | 34              | PCB-167                     | 0.00003           | 26.97           | 1710  | 5.1              |     |      | 34 |
| PCB-156/157                 | 0.00003           | 27.60        | 3410              | 7.7             |       |                  | 67  | PCB-156/157                 | 0.00003      | 27.60             | 3410            | 7.7   |                  |      | 67              | PCB-156/157                 | 0.00003           | 27.60           | 3410  | 7.7              |     |      | 67 |
| PCB-169                     | 0.03              |              |                   |                 |       |                  |     | PCB-169                     | 0.03         |                   |                 |       |                  |      |                 | 29.29                       | 39.3              | 0.43            | M     |                  | 13  |      |    |
| PCB-188                     |                   | NotFnd       | <4.5              | 4.5             | U     |                  | 34  | PCB-188                     |              | NotFnd            | <4.5            | 4.5   | U                |      | 34              | PCB-188                     |                   | NotFnd          | <4.5  | 4.5              | U   |      | 34 |
| PCB-179                     |                   | 24.33        | 45.6              | 5.6             |       |                  | 34  | PCB-179                     |              | 24.33             | 45.6            | 5.6   |                  |      | 34              | PCB-179                     |                   | 24.33           | 45.6  | 5.6              |     |      | 34 |
| PCB-184                     |                   | NotFnd       | <5.1              | 5.1             | U     |                  | 34  | PCB-184                     |              | NotFnd            | <5.1            | 5.1   | U                |      | 34              | PCB-184                     |                   | NotFnd          | <5.1  | 5.1              | U   |      | 34 |
| PCB-176                     |                   | 24.76        | <11               | 5.3             | J,R   | 11               | 34  | PCB-176                     |              | 24.76             | <11             | 5.3   | J,R              | 11   | 34              | PCB-176                     |                   | 24.76           | <11   | 5.3              | J,R | 11   | 34 |
| PCB-186                     |                   | 24.97        | <5.7              | 5.7             | U     | 0.76             | 34  | PCB-186                     |              | 24.97             | <5.7            | 5.7   | U                | 0.76 | 34              | PCB-186                     |                   | 24.97           | <5.7  | 5.7              | U   | 0.76 | 34 |
| PCB-178                     |                   | 25.64        | 1610              | 7.6             |       |                  | 34  | PCB-178                     |              | 25.64             | 1610            | 7.6   |                  |      | 34              | PCB-178                     |                   | 25.64           | 1610  | 7.6              |     |      | 34 |
| PCB-175                     |                   | 25.97        | 43.4              | 7.3             |       |                  | 34  | PCB-175                     |              | 25.97             | 43.4            | 7.3   |                  |      | 34              | PCB-175                     |                   | 25.97           | 43.4  | 7.3              |     |      | 34 |
| PCB-187                     |                   | 26.10        | 8210              | 6.6             |       |                  | 34  | PCB-187                     |              | 26.10             | 8210            | 6.6   |                  |      | 34              | PCB-187                     |                   | 26.10           | 8210  | 6.6              |     |      | 34 |
| PCB-182                     |                   | NotFnd       | <6.6              | 6.6             | U     |                  | 34  | PCB-182                     |              | NotFnd            | <6.6            | 6.6   | U                |      | 34              | PCB-182                     |                   | NotFnd          | <6.6  | 6.6              | U   |      | 34 |
| PCB-183                     |                   | 26.42        | 1600              | 6.6             |       |                  | 34  | PCB-183                     |              | 26.42             | 1600            | 6.6   |                  |      | 34              | PCB-183                     |                   | 26.42           | 1600  | 6.6              |     |      | 34 |
| PCB-185                     |                   | 26.53        | 57.9              | 7.8             |       |                  | 34  |                             |              |                   |                 |       |                  |      |                 |                             |                   |                 |       |                  |     |      |    |



ALS Life Sciences

## Sample Analysis Report

|                    |                          |                  |           |       |                                                                                 |
|--------------------|--------------------------|------------------|-----------|-------|---------------------------------------------------------------------------------|
| <b>Sample Name</b> | <b>PLOT 114 - 4 JARS</b> | Sampling Date    | 25-May-24 | g dwt | <div>Approved:<br/><i>S. Sarhaddi</i><br/>--e-signature--<br/>14-Aug-2024</div> |
| ALS Sample ID      | L2756078-7               | Extraction Date  | 6-Jul-24  |       |                                                                                 |
| Analysis Method    | EPA 1668C                | Sample Size      | 2.97      |       |                                                                                 |
| Analysis Type      | Sample                   | Percent Moisture | 71.5%     |       |                                                                                 |
| Sample Matrix      | Tissue                   | Split Ratio      | 4         |       |                                                                                 |

| Run Information     | Run 1                     | Run 2                     | Run 3                     |
|---------------------|---------------------------|---------------------------|---------------------------|
| Filename            | 6-240714A20               | 6-240718A26               | 6-240812C09               |
| Run Date            | 14-Jul-24 21:59           | 19-Jul-24 07:49           | 12-Aug-24 21:19           |
| Final Volume        | 25 ul                     | 25 uL                     | 10 uL                     |
| Dilution Factor     | 1                         | 10                        | 1                         |
| Analysis Units      | pg/g dwt                  | pg/g dwt                  | pg/g dwt                  |
| Instrument - Column | HRMS-6 SPBOCTYL-281311-07 | HRMS-6 SPBOCTYL-283388-03 | HRMS-6 SPBOCTYL-283388-03 |

| Target Analytes      |  | TEF<br>(WHO 2005) | Ret.<br>Time | Conc.<br>pg/g dwt | EDL<br>pg/g dwt | Flags | EMPC<br>pg/g dwt | LQL | Ret.<br>Time | Conc.<br>pg/g dwt | EDL<br>pg/g dwt | Flags | EMPC<br>pg/g dwt | LQL | Ret.<br>Time | Conc.<br>pg/g dwt | EDL<br>pg/g dwt | Flags | EMPC<br>pg/g dwt | LQL |
|----------------------|--|-------------------|--------------|-------------------|-----------------|-------|------------------|-----|--------------|-------------------|-----------------|-------|------------------|-----|--------------|-------------------|-----------------|-------|------------------|-----|
| PCB-192              |  |                   | 28.09        | <6.3              | 5.9             | J,R   | 6.3              | 34  |              |                   |                 |       |                  |     |              |                   |                 |       |                  |     |
| PCB-180/193          |  |                   | 28.27        | 25500             | 5.7             |       |                  | 34  |              |                   |                 |       |                  |     |              |                   |                 |       |                  |     |
| PCB-191              |  |                   | 28.44        | 98.3              | 4.8             |       |                  | 34  |              |                   |                 |       |                  |     |              |                   |                 |       |                  |     |
| PCB-170              |  |                   | 28.97        | 3820              | 6.8             |       |                  | 34  |              |                   |                 |       |                  |     |              |                   |                 |       |                  |     |
| PCB-190              |  |                   | 29.23        | 3270              | 4.3             |       |                  | 34  |              |                   |                 |       |                  |     |              |                   |                 |       |                  |     |
| PCB-189              |  | 0.00003           | 30.54        | 946               | 2.4             |       |                  | 34  |              |                   |                 |       |                  |     |              |                   |                 |       |                  |     |
| PCB-202              |  |                   | 26.85        | 685               | 1.5             |       |                  | 34  |              |                   |                 |       |                  |     |              |                   |                 |       |                  |     |
| PCB-201              |  |                   | 27.32        | 89.2              | 1.7             |       |                  | 34  |              |                   |                 |       |                  |     |              |                   |                 |       |                  |     |
| PCB-204              |  |                   | NotFnd       | <1.7              | 1.7             | U     |                  | 34  |              |                   |                 |       |                  |     |              |                   |                 |       |                  |     |
| PCB-197              |  |                   | 27.78        | 59.0              | 1.9             |       |                  | 34  |              |                   |                 |       |                  |     |              |                   |                 |       |                  |     |
| PCB-200              |  |                   | 27.89        | 12.3              | 1.8             | J     |                  | 34  |              |                   |                 |       |                  |     |              |                   |                 |       |                  |     |
| PCB-198/199          |  |                   | 29.27        | 12200             | 2.3             |       |                  | 34  |              |                   |                 |       |                  |     |              |                   |                 |       |                  |     |
| PCB-196              |  |                   | 29.60        | 754               | 2.2             |       |                  | 34  |              |                   |                 |       |                  |     |              |                   |                 |       |                  |     |
| PCB-203              |  |                   | 29.70        | 5490              | 2.1             |       |                  | 34  |              |                   |                 |       |                  |     |              |                   |                 |       |                  |     |
| PCB-195              |  |                   | 30.44        | 2680              | 4.8             |       |                  | 34  |              |                   |                 |       |                  |     |              |                   |                 |       |                  |     |
| PCB-194              |  |                   | 31.70        | 13800             | 4.4             |       |                  | 34  |              |                   |                 |       |                  |     |              |                   |                 |       |                  |     |
| PCB-205              |  |                   | 31.99        | 776               | 4.4             |       |                  | 34  |              |                   |                 |       |                  |     |              |                   |                 |       |                  |     |
| PCB-208              |  |                   |              |                   |                 |       |                  |     | 30.29        | 320               | 37              | M,J   |                  | 340 |              |                   |                 |       |                  |     |
| PCB-207              |  |                   | 30.75        | <110              | 3.2             | R     | 110              | 34  |              |                   |                 |       |                  |     |              |                   |                 |       |                  |     |
| PCB-206              |  |                   | 33.12        | 2960              | 3.7             |       |                  | 34  |              |                   |                 |       |                  |     |              |                   |                 |       |                  |     |
| PCB-209              |  |                   | 34.30        | 289               | 0.72            |       |                  | 34  |              |                   |                 |       |                  |     |              |                   |                 |       |                  |     |
| Extraction Standards |  | pg                | Time         | % Rec             | Limits          |       |                  |     | Time         | % Rec             | Limits          |       |                  |     | Time         | % Rec             | Limits          |       |                  |     |
| 13C12-PCB-001        |  | 4000              | 9.39         | 28                | 5-145           |       |                  |     |              |                   |                 |       |                  |     |              |                   |                 |       |                  |     |
| 13C12-PCB-003        |  | 4000              | 10.97        | 29                | 5-145           |       |                  |     |              |                   |                 |       |                  |     |              |                   |                 |       |                  |     |
| 13C12-PCB-004        |  | 4000              | 11.13        | 41                | 5-145           |       |                  |     |              |                   |                 |       |                  |     |              |                   |                 |       |                  |     |
| 13C12-PCB-015        |  | 4000              | 14.87        | 43                | 5-145           |       |                  |     |              |                   |                 |       |                  |     |              |                   |                 |       |                  |     |
| 13C12-PCB-019        |  | 4000              | 13.16        | 45                | 5-145           |       |                  |     |              |                   |                 |       |                  |     |              |                   |                 |       |                  |     |
| 13C12-PCB-037        |  | 4000              | 18.84        | 51                | 5-145           |       |                  |     |              |                   |                 |       |                  |     |              |                   |                 |       |                  |     |
| 13C12-PCB-054        |  | 4000              | 15.04        | 49                | 5-145           |       |                  |     |              |                   |                 |       |                  |     |              |                   |                 |       |                  |     |
| 13C12-PCB-081        |  | 4000              | 22.40        | 63                | 10-145          |       |                  |     |              |                   |                 |       |                  |     |              |                   |                 |       |                  |     |
| 13C12-PCB-077        |  | 4000              | 22.70        | 65                | 10-145          |       |                  |     |              |                   |                 |       |                  |     |              |                   |                 |       |                  |     |
| 13C12-PCB-104        |  | 4000              | 18.09        | 57                | 10-145          |       |                  |     |              |                   |                 |       |                  |     |              |                   |                 |       |                  |     |
| 13C12-PCB-123        |  | 4000              | 23.66        | 67                | 10-145          |       |                  |     |              |                   |                 |       |                  |     |              |                   |                 |       |                  |     |
| 13C12-PCB-118        |  | 4000              | 23.83        | 77                | 10-145          |       |                  |     |              |                   |                 |       |                  |     |              |                   |                 |       |                  |     |
| 13C12-PCB-114        |  | 4000              | 24.15        | 65                | 10-145          |       |                  |     |              |                   |                 |       |                  |     |              |                   |                 |       |                  |     |
| 13C12-PCB-105        |  | 4000              | 24.50        | 71                | 10-145          |       |                  |     |              |                   |                 |       |                  |     |              |                   |                 |       |                  |     |
| 13C12-PCB-126        |  | 4000              |              |                   |                 |       |                  |     |              |                   |                 |       |                  |     | 26.10        | 72                | 10-145          |       |                  |     |
| 13C12-PCB-155        |  | 4000              | 21.06        | 72                | 10-145          |       |                  |     |              |                   |                 |       |                  |     |              |                   |                 |       |                  |     |
| 13C12-PCB-167        |  | 4000              | 26.96        | 68                | 10-145          |       |                  |     |              |                   |                 |       |                  |     |              |                   |                 |       |                  |     |
| 13C12-PCB-156/157    |  | 8000              | 27.61        | 65                | 10-145          |       |                  |     |              |                   |                 |       |                  |     |              |                   |                 |       |                  |     |
| 13C12-PCB-169        |  | 4000              |              |                   |                 |       |                  |     |              |                   |                 |       |                  |     | 29.28        | 83                | 10-145          |       |                  |     |
| 13C12-PCB-188        |  | 4000              | 24.06        | 65                | 10-145          |       |                  |     |              |                   |                 |       |                  |     |              |                   |                 |       |                  |     |
| 13C12-PCB-189        |  | 4000              | 30.53        | 65                | 10-145          |       |                  |     |              |                   |                 |       |                  |     |              |                   |                 |       |                  |     |
| 13C12-PCB-202        |  | 4000              | 26.84        | 70                | 10-145          |       |                  |     |              |                   |                 |       |                  |     |              |                   |                 |       |                  |     |
| 13C12-PCB-205        |  | 4000              | 31.98        | 70                | 10-145          |       |                  |     |              |                   |                 |       |                  |     |              |                   |                 |       |                  |     |
| 13C12-PCB-208        |  | 4000              |              |                   |                 |       |                  |     | 30.27        | 67                | 10-145          |       |                  |     |              |                   |                 |       |                  |     |
| 13C12-PCB-206        |  | 4000              | 33.11        | 70                | 10-145          |       |                  |     |              |                   |                 |       |                  |     |              |                   |                 |       |                  |     |
| 13C12-PCB-209        |  | 4000              | 34.28        | 79                | 10-145          |       |                  |     |              |                   |                 |       |                  |     |              |                   |                 |       |                  |     |
| Cleanup Standards    |  |                   |              |                   |                 |       |                  |     |              |                   |                 |       |                  |     |              |                   |                 |       |                  |     |
| 13C12-PCB-028        |  | 4000              | 16.56        | 56                | 5-145           |       |                  |     |              |                   |                 |       |                  |     |              |                   |                 |       |                  |     |
| 13C12-PCB-111        |  | 4000              | 22.59        | 72                | 10-145          |       |                  |     |              |                   |                 |       |                  |     |              |                   |                 |       |                  |     |
| 13C12-PCB-178        |  | 4000              | 25.63        | 71                | 10-145          |       |                  |     |              |                   |                 |       |                  |     |              |                   |                 |       |                  |     |

| ALS Life Sciences              |  |                                                                                                                                                   |      |          |          |       |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |       |  |
|--------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|----------|-------|----------|---------------------------|-------|-----------|----------|-------------------------------------------------------------------------|------|---------------------------------|-----|----------|----------|-------|----------|-------|--|
| Sample Analysis Report         |  |                                                                                                                                                   |      |          |          |       |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |       |  |
| Sample Name                    |  | PLOT 114 - 4 JARS                                                                                                                                 |      |          |          |       |          | Sampling Date             |       | 25-May-24 |          | <div>Approved:<br/>S.Sarhaddi<br/>--e-signature--<br/>14-Aug-2024</div> |      |                                 |     |          |          |       |          |       |  |
| ALS Sample ID                  |  | L2756078-7                                                                                                                                        |      |          |          |       |          | Extraction Date           |       | 6-Jul-24  |          |                                                                         |      |                                 |     |          |          |       |          |       |  |
| Analysis Method                |  | EPA 1668C                                                                                                                                         |      |          |          |       |          | Sample Size               |       | 2.97      |          |                                                                         |      |                                 |     |          |          |       |          | g dwt |  |
| Analysis Type                  |  | Sample                                                                                                                                            |      |          |          |       |          | Percent Moisture          |       | 71.5%     |          |                                                                         |      |                                 |     |          |          |       |          |       |  |
| Sample Matrix                  |  | Tissue                                                                                                                                            |      |          |          |       |          | Split Ratio               |       | 4         |          |                                                                         |      |                                 |     |          |          |       |          |       |  |
| Run Information                |  | Run 1                                                                                                                                             |      |          |          |       |          | Run 2                     |       |           |          |                                                                         |      | Run 3                           |     |          |          |       |          |       |  |
| Filename                       |  | 6-240714A20                                                                                                                                       |      |          |          |       |          | 6-240718A26               |       |           |          |                                                                         |      | 6-240812C09                     |     |          |          |       |          |       |  |
| Run Date                       |  | 14-Jul-24 21:59                                                                                                                                   |      |          |          |       |          | 19-Jul-24 07:49           |       |           |          |                                                                         |      | 12-Aug-24 21:19                 |     |          |          |       |          |       |  |
| Final Volume                   |  | 25 ul                                                                                                                                             |      |          |          |       |          | 25 uL                     |       |           |          |                                                                         |      | 10 uL                           |     |          |          |       |          |       |  |
| Dilution Factor                |  | 1                                                                                                                                                 |      |          |          |       |          | 10                        |       |           |          |                                                                         |      | 1                               |     |          |          |       |          |       |  |
| Analysis Units                 |  | pg/g dwt                                                                                                                                          |      |          |          |       |          | pg/g dwt                  |       |           |          |                                                                         |      | pg/g dwt                        |     |          |          |       |          |       |  |
| Instrument - Column            |  | HRMS-6 SPBOCTYL-281311-07                                                                                                                         |      |          |          |       |          | HRMS-6 SPBOCTYL-283388-03 |       |           |          |                                                                         |      | HRMS-6 SPBOCTYL-283388-03       |     |          |          |       |          |       |  |
| Target Analytes                |  | TEF                                                                                                                                               | Ret. | Conc.    | EDL      | EMPC  |          | Ret.                      | Conc. | EDL       | EMPC     |                                                                         | Ret. | Conc.                           | EDL | EMPC     |          |       |          |       |  |
|                                |  | (WHO 2005)                                                                                                                                        | Time | pg/g dwt | pg/g dwt | Flags | pg/g dwt |                           | LQL   | pg/g dwt  | pg/g dwt | Flags                                                                   |      | pg/g dwt                        | LQL | pg/g dwt | pg/g dwt | Flags | pg/g dwt | LQL   |  |
| Homologue Group Totals         |  |                                                                                                                                                   |      | pg/g dwt | pg/g dwt | Flags |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |       |  |
| Total MonoCB                   |  |                                                                                                                                                   |      | 2.60     | 1.8      | J     |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |       |  |
| Total DiCB                     |  |                                                                                                                                                   |      | 130      | 7.3      | J     |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |       |  |
| Total TriCB                    |  |                                                                                                                                                   |      | 150      | 3.0      | J     |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |       |  |
| Total TetraCB                  |  |                                                                                                                                                   |      | 1380     | 1.2      | J     |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |       |  |
| Total PentaCB                  |  |                                                                                                                                                   |      | 16600    | 0.77     | J     |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |       |  |
| Total HexaCB                   |  |                                                                                                                                                   |      | 29800    | 0.43     | J     |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |       |  |
| Total HeptaCB                  |  |                                                                                                                                                   |      | 52000    | 2.4      | J     |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |       |  |
| Total OctaCB                   |  |                                                                                                                                                   |      | 36500    | 1.5      | J     |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |       |  |
| Total NonaCB                   |  |                                                                                                                                                   |      | 3390     | 3.2      | J     |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |       |  |
| DecaCB                         |  |                                                                                                                                                   |      | 289      | 0.72     | J     |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |       |  |
| Total PCB                      |  |                                                                                                                                                   |      | 140000   |          | J     |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |       |  |
| Toxic Equivalency - (WHO 2005) |  |                                                                                                                                                   |      |          |          |       |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |       |  |
| Lower Bound PCB TEQ            |  |                                                                                                                                                   |      | 43.2     |          |       |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |       |  |
| Mid Point PCB TEQ              |  |                                                                                                                                                   |      | 43.2     |          |       |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |       |  |
| Upper Bound PCB TEQ            |  |                                                                                                                                                   |      | 43.2     |          |       |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |       |  |
| EDL                            |  | Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.                                   |      |          |          |       |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |       |  |
| TEF                            |  | Indicates the Toxic Equivalency Factor                                                                                                            |      |          |          |       |          |                           |       |           |          | TEQ                                                                     |      | Indicates the Toxic Equivalency |     |          |          |       |          |       |  |
| LQL                            |  | Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.                                |      |          |          |       |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |       |  |
| M                              |  | Indicates that a peak has been manually integrated.                                                                                               |      |          |          |       |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |       |  |
| U                              |  | Indicates that this compound was not detected above the EDL.                                                                                      |      |          |          |       |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |       |  |
| J                              |  | Indicates that the analyte was positively identified. The associated numerical result is an estimate.                                             |      |          |          |       |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |       |  |
| R                              |  | Indicates that the ion abundance ratio for this analyte did not meet the control limit. The reported value represents an estimated concentration. |      |          |          |       |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |       |  |
| EMPC                           |  | Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure                          |      |          |          |       |          |                           |       |           |          |                                                                         |      |                                 |     |          |          |       |          |       |  |

| ALS Life Sciences      |  |                           |              |                   |                 |       |                  |                           |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
|------------------------|--|---------------------------|--------------|-------------------|-----------------|-------|------------------|---------------------------|--------------|-------------------|-----------------|-----------------------------------------------------------|------------------|---------------------------|--------------|-------------------|-----------------|-------|------------------|-----|
| Sample Analysis Report |  |                           |              |                   |                 |       |                  |                           |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| Sample Name            |  | PLOT 117 - 1 JAR          |              |                   |                 |       |                  | Sampling Date             |              | 25-May-24         |                 | Approved:<br>S.Sarhaddi<br>--e-signature--<br>14-Aug-2024 |                  |                           |              |                   |                 |       |                  |     |
| ALS Sample ID          |  | L2756078-8                |              |                   |                 |       |                  | Extraction Date           |              | 6-Jul-24          |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| Analysis Method        |  | EPA 1668C                 |              |                   |                 |       |                  | Sample Size               |              | 1.33 g dwt        |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| Analysis Type          |  | Sample                    |              |                   |                 |       |                  | Percent Moisture          |              | 70.0%             |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| Sample Matrix          |  | Tissue                    |              |                   |                 |       |                  | Split Ratio               |              | 4                 |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| Run Information        |  | Run 1                     |              |                   |                 |       |                  | Run 2                     |              |                   |                 |                                                           |                  | Run 3                     |              |                   |                 |       |                  |     |
| Filename               |  | 6-240714A21               |              |                   |                 |       |                  | 6-240718A27               |              |                   |                 |                                                           |                  | 6-240812C10               |              |                   |                 |       |                  |     |
| Run Date               |  | 14-Jul-24 22:45           |              |                   |                 |       |                  | 19-Jul-24 08:36           |              |                   |                 |                                                           |                  | 12-Aug-24 22:05           |              |                   |                 |       |                  |     |
| Final Volume           |  | 25 ul                     |              |                   |                 |       |                  | 25 uL                     |              |                   |                 |                                                           |                  | 10 uL                     |              |                   |                 |       |                  |     |
| Dilution Factor        |  | 1                         |              |                   |                 |       |                  | 5                         |              |                   |                 |                                                           |                  | 1                         |              |                   |                 |       |                  |     |
| Analysis Units         |  | pg/g dwt                  |              |                   |                 |       |                  | pg/g dwt                  |              |                   |                 |                                                           |                  | pg/g dwt                  |              |                   |                 |       |                  |     |
| Instrument - Column    |  | HRMS-6 SPBOCTYL-281311-07 |              |                   |                 |       |                  | HRMS-6 SPBOCTYL-283388-03 |              |                   |                 |                                                           |                  | HRMS-6 SPBOCTYL-283388-03 |              |                   |                 |       |                  |     |
| Target Analytes        |  | TEF<br>(WHO 2005)         | Ret.<br>Time | Conc.<br>pg/g dwt | EDL<br>pg/g dwt | Flags | EMPC<br>pg/g dwt | LQL                       | Ret.<br>Time | Conc.<br>pg/g dwt | EDL<br>pg/g dwt | Flags                                                     | EMPC<br>pg/g dwt | LQL                       | Ret.<br>Time | Conc.<br>pg/g dwt | EDL<br>pg/g dwt | Flags | EMPC<br>pg/g dwt | LQL |
| PCB-001                |  |                           | NotFnd       | <2.4              | 2.4             | U     |                  | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-002                |  |                           | 10.82        | <3.5              | 2.6             | J,R   | 3.5              | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-003                |  |                           | NotFnd       | <2.9              | 2.9             | U     |                  | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-004                |  |                           | NotFnd       | <25               | 25              | U     |                  | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-010                |  |                           | NotFnd       | <15               | 15              | U     |                  | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-009                |  |                           | NotFnd       | <16               | 16              | U     |                  | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-007                |  |                           | NotFnd       | <16               | 16              | U     |                  | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-006                |  |                           | NotFnd       | <16               | 16              | U     |                  | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-005                |  |                           | NotFnd       | <17               | 17              | U     |                  | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-008                |  |                           | NotFnd       | <15               | 15              | U     |                  | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-014                |  |                           | NotFnd       | <20               | 20              | U     |                  | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-011                |  |                           | 14.48        | 173               | 20              |       |                  | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-012/013            |  |                           | NotFnd       | <19               | 19              | U     |                  | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-015                |  |                           | NotFnd       | <22               | 22              | U     |                  | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-019                |  |                           | NotFnd       | <8.5              | 8.5             | U     |                  | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-018/030            |  |                           | 14.26        | <6.8              | 6.4             | M,J,R | 6.8              | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-017                |  |                           | 14.53        | <7.5              | 7.5             | M,U   |                  | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-027                |  |                           | NotFnd       | <5.5              | 5.5             | U     |                  | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-024                |  |                           | NotFnd       | <6.3              | 6.3             | U     |                  | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-016                |  |                           | NotFnd       | <8.6              | 8.6             | U     |                  | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-032                |  |                           | 15.11        | <5.1              | 5.1             | U     |                  | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-034                |  |                           | NotFnd       | <6.4              | 6.4             | U     |                  | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-023                |  |                           | NotFnd       | <6.4              | 6.4             | U     |                  | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-026/029            |  |                           | NotFnd       | <5.9              | 5.9             | U     |                  | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-025                |  |                           | NotFnd       | <5.8              | 5.8             | U     |                  | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-031                |  |                           | 16.41        | <11               | 5.5             | J,R   | 11               | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-020/028            |  |                           | 16.56        | 42.1              | 6.2             | J     |                  | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-021/033            |  |                           | 16.72        | <5.9              | 5.9             | M,U   | 5.1              | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-022                |  |                           | 16.97        | <6.7              | 6.7             | M,J,R | 6.7              | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-036                |  |                           | NotFnd       | <5.6              | 5.6             | U     |                  | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-039                |  |                           | NotFnd       | <6.8              | 6.8             | U     |                  | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-038                |  |                           | NotFnd       | <6.5              | 6.5             | U     |                  | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-035                |  |                           | NotFnd       | <6.6              | 6.6             | U     |                  | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-037                |  |                           | 18.83        | <13               | 6.2             | J,R   | 13               | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-054                |  |                           | NotFnd       | <2.5              | 2.5             | U     |                  | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-050/053            |  |                           | NotFnd       | <5.6              | 5.6             | U     |                  | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-045/051            |  |                           | 16.67        | <5.9              | 5.9             | U     | 5.8              | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-046                |  |                           | NotFnd       | <6.4              | 6.4             | U     |                  | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-052                |  |                           | 17.56        | <22               | 5.8             | J,R   | 22               | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-073                |  |                           | NotFnd       | <4.1              | 4.1             | U     |                  | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-043                |  |                           | 17.73        | <6.7              | 6.7             | U     | 1.9              | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-049/069            |  |                           | 17.84        | 6.62              | 4.8             | M,J   |                  | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-048                |  |                           | 17.97        | <5.6              | 5.6             | U     | 1.2              | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-044/047/065        |  |                           | 18.15        | <24               | 4.9             | J,R   | 24               | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-059/062/075        |  |                           | NotFnd       | <4.1              | 4.1             | U     |                  | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-042                |  |                           | NotFnd       | <6.5              | 6.5             | U     |                  | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-040/041/071        |  |                           | 18.74        | <5.7              | 5.7             | U     | 3.7              | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-064                |  |                           | 18.82        | <5.2              | 4.1             | M,J,R | 5.2              | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-072                |  |                           | NotFnd       | <4.4              | 4.4             | U     |                  | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-068                |  |                           | NotFnd       | <4.4              | 4.4             | U     |                  | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-057                |  |                           | NotFnd       | <4.6              | 4.6             | U     |                  | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-058                |  |                           | NotFnd       | <4.4              | 4.4             | U     |                  | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-067                |  |                           | NotFnd       | <3.8              | 3.8             | U     |                  | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-063                |  |                           | NotFnd       | <4.4              | 4.4             | U     |                  | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-061/070/074/076    |  |                           | 20.20        | 147               | 4.3             |       |                  | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-066                |  |                           | 20.36        | 34.2              | 4.3             | J     |                  | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-055                |  |                           | NotFnd       | <4.8              | 4.8             | U     |                  | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-056                |  |                           | 20.74        | <4.4              | 4.2             | J,R   | 4.4              | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-060                |  |                           | 20.86        | 18.5              | 4.6             | J     |                  | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-080                |  |                           | NotFnd       | <3.7              | 3.7             | U     |                  | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-079                |  |                           | 21.88        | <3.9              | 3.9             | U     | 0.63             | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-078                |  |                           | NotFnd       | <4.7              | 4.7             | U     |                  | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-081                |  | 0.0003                    | 22.40        | <5.1              | 4.8             | J,R   | 5.1              | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-077                |  | 0.0001                    | 22.71        | 64.7              | 4.9             | J     |                  | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-104                |  |                           | NotFnd       | <4.3              | 4.3             | U     |                  | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-096                |  |                           | NotFnd       | <5.9              | 5.9             | U     |                  | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-103                |  |                           | NotFnd       | <9.6              | 9.6             | U     |                  | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-094                |  |                           | NotFnd       | <10               | 10              | U     |                  | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-095                |  |                           | 19.73        | <15               | 12              | M,J,R | 15               | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |
| PCB-093/098/100/102    |  |                           | NotFnd       | <9.1              | 9.1             | U     |                  | 75                        |              |                   |                 |                                                           |                  |                           |              |                   |                 |       |                  |     |



| ALS Life Sciences           |  |                           |              |                   |                 |       |                  |                           |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
|-----------------------------|--|---------------------------|--------------|-------------------|-----------------|-------|------------------|---------------------------|--------------|-------------------|-----------------|-------------------------------------------------------------------------|------------------|---------------------------|--------------|-------------------|-----------------|-------|------------------|-----|
| Sample Analysis Report      |  |                           |              |                   |                 |       |                  |                           |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| Sample Name                 |  | PLOT 117 - 1 JAR          |              |                   |                 |       |                  | Sampling Date             |              | 25-May-24         |                 | <div>Approved:<br/>S.Sarhaddi<br/>--e-signature--<br/>14-Aug-2024</div> |                  |                           |              |                   |                 |       |                  |     |
| ALS Sample ID               |  | L2756078-8                |              |                   |                 |       |                  | Extraction Date           |              | 6-Jul-24          |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| Analysis Method             |  | EPA 1668C                 |              |                   |                 |       |                  | Sample Size               |              | 1.33 g dwt        |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| Analysis Type               |  | Sample                    |              |                   |                 |       |                  | Percent Moisture          |              | 70.0%             |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| Sample Matrix               |  | Tissue                    |              |                   |                 |       |                  | Split Ratio               |              | 4                 |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| Run Information             |  | Run 1                     |              |                   |                 |       |                  | Run 2                     |              |                   |                 |                                                                         |                  | Run 3                     |              |                   |                 |       |                  |     |
| Filename                    |  | 6-240714A21               |              |                   |                 |       |                  | 6-240718A27               |              |                   |                 |                                                                         |                  | 6-240812C10               |              |                   |                 |       |                  |     |
| Run Date                    |  | 14-Jul-24 22:45           |              |                   |                 |       |                  | 19-Jul-24 08:36           |              |                   |                 |                                                                         |                  | 12-Aug-24 22:05           |              |                   |                 |       |                  |     |
| Final Volume                |  | 25 ul                     |              |                   |                 |       |                  | 25 uL                     |              |                   |                 |                                                                         |                  | 10 uL                     |              |                   |                 |       |                  |     |
| Dilution Factor             |  | 1                         |              |                   |                 |       |                  | 5                         |              |                   |                 |                                                                         |                  | 1                         |              |                   |                 |       |                  |     |
| Analysis Units              |  | pg/g dwt                  |              |                   |                 |       |                  | pg/g dwt                  |              |                   |                 |                                                                         |                  | pg/g dwt                  |              |                   |                 |       |                  |     |
| Instrument - Column         |  | HRMS-6 SPBOCTYL-281311-07 |              |                   |                 |       |                  | HRMS-6 SPBOCTYL-283388-03 |              |                   |                 |                                                                         |                  | HRMS-6 SPBOCTYL-283388-03 |              |                   |                 |       |                  |     |
| Target Analytes             |  | TEF<br>(WHO 2005)         | Ret.<br>Time | Conc.<br>pg/g dwt | EDL<br>pg/g dwt | Flags | EMPC<br>pg/g dwt | LQL                       | Ret.<br>Time | Conc.<br>pg/g dwt | EDL<br>pg/g dwt | Flags                                                                   | EMPC<br>pg/g dwt | LQL                       | Ret.<br>Time | Conc.<br>pg/g dwt | EDL<br>pg/g dwt | Flags | EMPC<br>pg/g dwt | LQL |
| PCB-088/091                 |  |                           | NotFnd       | <9.8              | 9.8             | U     |                  | 75                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| PCB-084                     |  |                           | NotFnd       | <10               | 10              | U     |                  | 75                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| PCB-089                     |  |                           | NotFnd       | <12               | 12              | U     |                  | 75                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| PCB-121                     |  |                           | NotFnd       | <6.9              | 6.9             | U     |                  | 75                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| PCB-092                     |  |                           | NotFnd       | <11               | 11              | U     |                  | 75                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| PCB-090/101/113             |  |                           | 21.21        | 45.5              | 7.9             | J     |                  | 75                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| PCB-083/099                 |  |                           | 21.53        | 142               | 10              |       |                  | 75                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| PCB-112                     |  |                           | NotFnd       | <6.4              | 6.4             | U     |                  | 75                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| PCB-086/087/097/109/119/125 |  |                           | 21.90        | <25               | 7.6             | M,J,R | 25               | 75                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| PCB-085/110/115/116/117     |  |                           | 22.32        | 108               | 7.3             | M     |                  | 75                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| PCB-082                     |  |                           | NotFnd       | <12               | 12              | U     |                  | 75                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| PCB-111                     |  |                           | NotFnd       | <6.5              | 6.5             | U     |                  | 75                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| PCB-120                     |  |                           | NotFnd       | <6.6              | 6.6             | U     |                  | 75                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| PCB-108/124                 |  |                           | 23.48        | <7.9              | 5.9             | J,R   | 7.9              | 75                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| PCB-107                     |  |                           | 23.61        | 56.3              | 5.9             | M,J   |                  | 75                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| PCB-123                     |  | 0.00003                   | 23.65        | <6.7              | 6.7             | M,U   | 6.2              | 75                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| PCB-106                     |  |                           | NotFnd       | <6.6              | 6.6             | U     |                  | 75                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| PCB-118                     |  | 0.00003                   | 23.84        | 2120              | 5.3             |       |                  | 75                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| PCB-122                     |  |                           | NotFnd       | <7.8              | 7.8             | U     |                  | 75                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| PCB-114                     |  | 0.00003                   | 24.15        | <23               | 6.8             | J,R   | 23               | 75                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| PCB-105                     |  | 0.00003                   | 24.51        | 386               | 6.6             |       |                  | 75                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| PCB-127                     |  |                           | NotFnd       | <5.8              | 5.8             | U     |                  | 75                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| PCB-126                     |  | 0.1                       |              |                   |                 |       |                  |                           |              |                   |                 |                                                                         |                  |                           | 26.13        | 72.1              | 0.63            | M     |                  | 30  |
| PCB-155                     |  |                           | 21.06        | <1.3              | 1.3             | U     | 0.78             | 75                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| PCB-152                     |  |                           | NotFnd       | <2.6              | 2.6             | U     |                  | 75                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| PCB-150                     |  |                           | NotFnd       | <1.9              | 1.9             | U     |                  | 75                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| PCB-136                     |  |                           | 21.55        | <2.3              | 2.3             | M,U   | 2.1              | 75                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| PCB-145                     |  |                           | NotFnd       | <2.2              | 2.2             | U     |                  | 75                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| PCB-148                     |  |                           | NotFnd       | <2.9              | 2.9             | U     |                  | 75                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| PCB-135/151                 |  |                           | 22.75        | <27               | 3.0             | M,J,R | 27               | 75                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| PCB-154                     |  |                           | 22.84        | <2.3              | 2.3             | U     | 1.2              | 75                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| PCB-144                     |  |                           | 23.06        | <3.0              | 3.0             | M,U   | 2.3              | 75                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| PCB-147/149                 |  |                           | 23.24        | <8.6              | 8.6             | M,U   | 0.14             | 75                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| PCB-134/143                 |  |                           | NotFnd       | <11               | 11              | U     |                  | 75                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| PCB-139/140                 |  |                           | 23.55        | <8.3              | 8.3             | U     | 1.9              | 75                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| PCB-131                     |  |                           | NotFnd       | <11               | 11              | U     |                  | 75                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| PCB-142                     |  |                           | NotFnd       | <11               | 11              | U     |                  | 75                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| PCB-132                     |  |                           | 23.95        | 22.2              | 10              | J     |                  | 75                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| PCB-133                     |  |                           | 24.10        | 16.4              | 9.6             | J     |                  | 75                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| PCB-165                     |  |                           | NotFnd       | <7.2              | 7.2             | U     |                  | 75                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| PCB-146                     |  |                           | 24.44        | 126               | 7.9             |       |                  | 75                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| PCB-161                     |  |                           | NotFnd       | <5.9              | 5.9             | U     |                  | 75                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| PCB-153/168                 |  |                           | 24.75        | 1610              | 6.6             |       |                  | 75                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| PCB-141                     |  |                           | 24.91        | <32               | 8.2             | J,R   | 32               | 75                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| PCB-130                     |  |                           | 25.12        | 86.5              | 10              | M     |                  | 75                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| PCB-137/164                 |  |                           | 25.22        | 38.2              | 7.2             | M,J   |                  | 75                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| PCB-129/138/163             |  |                           | 25.45        | 1610              | 7.9             |       |                  | 75                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| PCB-160                     |  |                           | NotFnd       | <6.6              | 6.6             | U     |                  | 75                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| PCB-158                     |  |                           | 25.64        | 75.5              | 5.2             |       |                  | 75                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| PCB-128/166                 |  |                           | 26.13        | 150               | 7.0             | M     |                  | 75                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| PCB-159                     |  |                           | 26.57        | <5.8              | 5.8             | U     | 2.1              | 75                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| PCB-162                     |  |                           | 26.72        | 26.2              | 6.2             | J     |                  | 75                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| PCB-167                     |  | 0.00003                   | 26.96        | 297               | 5.3             |       |                  | 75                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| PCB-156/157                 |  | 0.00003                   | 27.59        | 636               | 8.1             |       |                  | 150                       |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| PCB-169                     |  | 0.03                      |              |                   |                 |       |                  |                           |              |                   |                 |                                                                         |                  |                           | 29.30        | <6.6              | 0.39            | M,J,R | 43               | 30  |
| PCB-188                     |  |                           | 24.07        | <4.0              | 4.0             | U     | 0.87             | 75                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| PCB-179                     |  |                           | 24.30        | <4.9              | 4.9             | U     | 2.0              | 75                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| PCB-184                     |  |                           | NotFnd       | <4.5              | 4.5             | U     |                  | 75                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| PCB-176                     |  |                           | 24.75        | <4.7              | 4.7             | U     | 0.62             | 75                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| PCB-186                     |  |                           | NotFnd       | <5.1              | 5.1             | U     |                  | 75                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| PCB-178                     |  |                           | 25.64        | 272               | 6.7             |       |                  | 75                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| PCB-175                     |  |                           | 25.96        | <9.3              | 6.5             | J,R   | 9.3              | 75                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| PCB-187                     |  |                           | 26.10        | 1140              | 5.9             |       |                  | 75                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| PCB-182                     |  |                           | 26.21        | <5.8              | 5.8             | U     | 2.8              | 75                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| PCB-183                     |  |                           | 26.42        | <270              | 5.9             | R     | 270              | 75                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| PCB-185                     |  |                           | NotFnd       | <6.9              | 6.9             | U     |                  | 75                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| PCB-174                     |  |                           | 26.59        | 30.5              | 5.9             | J     |                  | 75                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| PCB-177                     |  |                           | 26.83        | 668               | 6.6             |       |                  | 75                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| PCB-181                     |  |                           | 27.03        | <6.6              | 6.6             | U     | 2.7              | 75                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |
| PCB-171/173                 |  |                           |              |                   |                 |       |                  |                           | 27.14        | <76               | 32              | J,R                                                                     | 76               | 380                       |              |                   |                 |       |                  |     |
| PCB-172                     |  |                           | 27.92        | 359               | 6.2             |       |                  | 75                        |              |                   |                 |                                                                         |                  |                           |              |                   |                 |       |                  |     |

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| Sample Analysis Report |  |
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|                    |                         |                  |           |       |                                                                                                      |
|--------------------|-------------------------|------------------|-----------|-------|------------------------------------------------------------------------------------------------------|
| <b>Sample Name</b> | <b>PLOT 117 - 1 JAR</b> | Sampling Date    | 25-May-24 | g dwt | <div>Approved:</div> <div><i>S. Sarhaddi</i></div> <div>--e-signature--</div> <div>14-Aug-2024</div> |
| ALS Sample ID      | L2756078-8              | Extraction Date  | 6-Jul-24  |       |                                                                                                      |
| Analysis Method    | EPA 1668C               | Sample Size      | 1.33      |       |                                                                                                      |
| Analysis Type      | Sample                  | Percent Moisture | 70.0%     |       |                                                                                                      |
| Sample Matrix      | Tissue                  | Split Ratio      | 4         |       |                                                                                                      |

| Run Information     | Run 1                     | Run 2                     | Run 3                     |
|---------------------|---------------------------|---------------------------|---------------------------|
| Filename            | 6-240714A21               | 6-240718A27               | 6-240812C10               |
| Run Date            | 14-Jul-24 22:45           | 19-Jul-24 08:36           | 12-Aug-24 22:05           |
| Final Volume        | 25 ul                     | 25 uL                     | 10 uL                     |
| Dilution Factor     | 1                         | 5                         | 1                         |
| Analysis Units      | pg/g dwt                  | pg/g dwt                  | pg/g dwt                  |
| Instrument - Column | HRMS-6 SPBOCTYL-281311-07 | HRMS-6 SPBOCTYL-283388-03 | HRMS-6 SPBOCTYL-283388-03 |

| Target Analytes      |  | TEF<br>(WHO 2005) | Ret.<br>Time | Conc.<br>pg/g dwt | EDL<br>pg/g dwt | Flags | EMPC<br>pg/g dwt | LQL |  |  | Ret.<br>Time | Conc.<br>pg/g dwt | EDL<br>pg/g dwt | Flags | EMPC<br>pg/g dwt | LQL |  |  | Ret.<br>Time | Conc.<br>pg/g dwt | EDL<br>pg/g dwt | Flags | EMPC<br>pg/g dwt | LQL |
|----------------------|--|-------------------|--------------|-------------------|-----------------|-------|------------------|-----|--|--|--------------|-------------------|-----------------|-------|------------------|-----|--|--|--------------|-------------------|-----------------|-------|------------------|-----|
| PCB-192              |  |                   | NotFnd       | <5.2              | 5.2             | U     |                  | 75  |  |  |              |                   |                 |       |                  |     |  |  |              |                   |                 |       |                  |     |
| PCB-180/193          |  |                   | 28.25        | 3720              | 5.1             |       |                  | 75  |  |  |              |                   |                 |       |                  |     |  |  |              |                   |                 |       |                  |     |
| PCB-191              |  |                   | 28.44        | <16               | 4.3             | J,R   | 16               | 75  |  |  |              |                   |                 |       |                  |     |  |  |              |                   |                 |       |                  |     |
| PCB-170              |  |                   | 28.95        | 508               | 6.1             |       |                  | 75  |  |  |              |                   |                 |       |                  |     |  |  |              |                   |                 |       |                  |     |
| PCB-190              |  |                   | 29.22        | 574               | 3.8             |       |                  | 75  |  |  |              |                   |                 |       |                  |     |  |  |              |                   |                 |       |                  |     |
| PCB-189              |  | 0.00003           | 30.54        | 171               | 3.8             |       |                  | 75  |  |  |              |                   |                 |       |                  |     |  |  |              |                   |                 |       |                  |     |
| PCB-202              |  |                   | 26.84        | <120              | 1.4             | R     | 120              | 75  |  |  |              |                   |                 |       |                  |     |  |  |              |                   |                 |       |                  |     |
| PCB-201              |  |                   | 27.32        | <16               | 1.6             | J,R   | 16               | 75  |  |  |              |                   |                 |       |                  |     |  |  |              |                   |                 |       |                  |     |
| PCB-204              |  |                   | NotFnd       | <1.6              | 1.6             | U     |                  | 75  |  |  |              |                   |                 |       |                  |     |  |  |              |                   |                 |       |                  |     |
| PCB-197              |  |                   | 27.76        | 14.3              | 1.7             | J     |                  | 75  |  |  |              |                   |                 |       |                  |     |  |  |              |                   |                 |       |                  |     |
| PCB-200              |  |                   | NotFnd       | <1.7              | 1.7             | U     |                  | 75  |  |  |              |                   |                 |       |                  |     |  |  |              |                   |                 |       |                  |     |
| PCB-198/199          |  |                   | 29.26        | 1990              | 2.1             |       |                  | 75  |  |  |              |                   |                 |       |                  |     |  |  |              |                   |                 |       |                  |     |
| PCB-196              |  |                   | 29.58        | <78               | 2.0             | R     | 78               | 75  |  |  |              |                   |                 |       |                  |     |  |  |              |                   |                 |       |                  |     |
| PCB-203              |  |                   | 29.69        | 828               | 2.0             |       |                  | 75  |  |  |              |                   |                 |       |                  |     |  |  |              |                   |                 |       |                  |     |
| PCB-195              |  |                   | 30.44        | 388               | 3.6             |       |                  | 75  |  |  |              |                   |                 |       |                  |     |  |  |              |                   |                 |       |                  |     |
| PCB-194              |  |                   | 31.70        | 2380              | 3.3             |       |                  | 75  |  |  |              |                   |                 |       |                  |     |  |  |              |                   |                 |       |                  |     |
| PCB-205              |  |                   | 31.99        | 150               | 3.2             |       |                  | 75  |  |  |              |                   |                 |       |                  |     |  |  |              |                   |                 |       |                  |     |
| PCB-208              |  |                   |              |                   |                 |       |                  |     |  |  | 30.29        | 62.6              | 35              | M,J   |                  | 380 |  |  |              |                   |                 |       |                  |     |
| PCB-207              |  |                   | 30.73        | <11               | 2.8             | J,R   | 11               | 75  |  |  |              |                   |                 |       |                  |     |  |  |              |                   |                 |       |                  |     |
| PCB-206              |  |                   | 33.11        | 511               | 4.3             |       |                  | 75  |  |  |              |                   |                 |       |                  |     |  |  |              |                   |                 |       |                  |     |
| PCB-209              |  |                   | 34.28        | 69.4              | 1.2             | J     |                  | 75  |  |  |              |                   |                 |       |                  |     |  |  |              |                   |                 |       |                  |     |
| Extraction Standards |  | pg                | Time         | % Rec             | Limits          |       |                  |     |  |  | Time         | % Rec             | Limits          |       |                  |     |  |  | Time         | % Rec             | Limits          |       |                  |     |
| 13C12-PCB-001        |  | 4000              | 9.39         | 40                | 5-145           |       |                  |     |  |  |              |                   |                 |       |                  |     |  |  |              |                   |                 |       |                  |     |
| 13C12-PCB-003        |  | 4000              | 10.96        | 39                | 5-145           |       |                  |     |  |  |              |                   |                 |       |                  |     |  |  |              |                   |                 |       |                  |     |
| 13C12-PCB-004        |  | 4000              | 11.11        | 51                | 5-145           |       |                  |     |  |  |              |                   |                 |       |                  |     |  |  |              |                   |                 |       |                  |     |
| 13C12-PCB-015        |  | 4000              | 14.86        | 50                | 5-145           |       |                  |     |  |  |              |                   |                 |       |                  |     |  |  |              |                   |                 |       |                  |     |
| 13C12-PCB-019        |  | 4000              | 13.16        | 53                | 5-145           |       |                  |     |  |  |              |                   |                 |       |                  |     |  |  |              |                   |                 |       |                  |     |
| 13C12-PCB-037        |  | 4000              | 18.82        | 63                | 5-145           |       |                  |     |  |  |              |                   |                 |       |                  |     |  |  |              |                   |                 |       |                  |     |
| 13C12-PCB-054        |  | 4000              | 15.03        | 56                | 5-145           |       |                  |     |  |  |              |                   |                 |       |                  |     |  |  |              |                   |                 |       |                  |     |
| 13C12-PCB-081        |  | 4000              | 22.39        | 74                | 10-145          |       |                  |     |  |  |              |                   |                 |       |                  |     |  |  |              |                   |                 |       |                  |     |
| 13C12-PCB-077        |  | 4000              | 22.70        | 73                | 10-145          |       |                  |     |  |  |              |                   |                 |       |                  |     |  |  |              |                   |                 |       |                  |     |
| 13C12-PCB-104        |  | 4000              | 18.08        | 71                | 10-145          |       |                  |     |  |  |              |                   |                 |       |                  |     |  |  |              |                   |                 |       |                  |     |
| 13C12-PCB-123        |  | 4000              | 23.66        | 81                | 10-145          |       |                  |     |  |  |              |                   |                 |       |                  |     |  |  |              |                   |                 |       |                  |     |
| 13C12-PCB-118        |  | 4000              | 23.83        | 94                | 10-145          |       |                  |     |  |  |              |                   |                 |       |                  |     |  |  |              |                   |                 |       |                  |     |
| 13C12-PCB-114        |  | 4000              | 24.13        | 79                | 10-145          |       |                  |     |  |  |              |                   |                 |       |                  |     |  |  |              |                   |                 |       |                  |     |
| 13C12-PCB-105        |  | 4000              | 24.50        | 83                | 10-145          |       |                  |     |  |  |              |                   |                 |       |                  |     |  |  |              |                   |                 |       |                  |     |
| 13C12-PCB-126        |  | 4000              |              |                   |                 |       |                  |     |  |  |              |                   |                 |       |                  |     |  |  | 26.11        | 96                | 10-145          |       |                  |     |
| 13C12-PCB-155        |  | 4000              | 21.05        | 78                | 10-145          |       |                  |     |  |  |              |                   |                 |       |                  |     |  |  |              |                   |                 |       |                  |     |
| 13C12-PCB-167        |  | 4000              | 26.95        | 77                | 10-145          |       |                  |     |  |  |              |                   |                 |       |                  |     |  |  |              |                   |                 |       |                  |     |
| 13C12-PCB-156/157    |  | 8000              | 27.60        | 76                | 10-145          |       |                  |     |  |  |              |                   |                 |       |                  |     |  |  |              |                   |                 |       |                  |     |
| 13C12-PCB-169        |  | 4000              |              |                   |                 |       |                  |     |  |  |              |                   |                 |       |                  |     |  |  | 29.29        | 115               | 10-145          |       |                  |     |
| 13C12-PCB-188        |  | 4000              | 24.05        | 76                | 10-145          |       |                  |     |  |  |              |                   |                 |       |                  |     |  |  |              |                   |                 |       |                  |     |
| 13C12-PCB-189        |  | 4000              | 30.52        | 77                | 10-145          |       |                  |     |  |  |              |                   |                 |       |                  |     |  |  |              |                   |                 |       |                  |     |
| 13C12-PCB-202        |  | 4000              | 26.83        | 80                | 10-145          |       |                  |     |  |  |              |                   |                 |       |                  |     |  |  |              |                   |                 |       |                  |     |
| 13C12-PCB-205        |  | 4000              | 31.98        | 84                | 10-145          |       |                  |     |  |  |              |                   |                 |       |                  |     |  |  |              |                   |                 |       |                  |     |
| 13C12-PCB-208        |  | 4000              |              |                   |                 |       |                  |     |  |  | 30.29        | 80                | 10-145          |       |                  |     |  |  |              |                   |                 |       |                  |     |
| 13C12-PCB-206        |  | 4000              | 33.09        | 85                | 10-145          |       |                  |     |  |  |              |                   |                 |       |                  |     |  |  |              |                   |                 |       |                  |     |
| 13C12-PCB-209        |  | 4000              | 34.27        | 93                | 10-145          |       |                  |     |  |  |              |                   |                 |       |                  |     |  |  |              |                   |                 |       |                  |     |
| Cleanup Standards    |  |                   |              |                   |                 |       |                  |     |  |  |              |                   |                 |       |                  |     |  |  |              |                   |                 |       |                  |     |
| 13C12-PCB-028        |  | 4000              | 16.55        | 54                | 5-145           |       |                  |     |  |  |              |                   |                 |       |                  |     |  |  |              |                   |                 |       |                  |     |
| 13C12-PCB-111        |  | 4000              | 22.58        | 72                | 10-145          |       |                  |     |  |  |              |                   |                 |       |                  |     |  |  |              |                   |                 |       |                  |     |
| 13C12-PCB-178        |  | 4000              | 25.63        | 73                | 10-145          |       |                  |     |  |  |              |                   |                 |       |                  |     |  |  |              |                   |                 |       |                  |     |

| ALS Life Sciences              |  |                                                                                                                                                   |      |          |          |       |          |                           |       |            |          |                                                                         |      |                                 |     |          |          |       |          |     |  |
|--------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|----------|-------|----------|---------------------------|-------|------------|----------|-------------------------------------------------------------------------|------|---------------------------------|-----|----------|----------|-------|----------|-----|--|
| Sample Analysis Report         |  |                                                                                                                                                   |      |          |          |       |          |                           |       |            |          |                                                                         |      |                                 |     |          |          |       |          |     |  |
| Sample Name                    |  | PLOT 117 - 1 JAR                                                                                                                                  |      |          |          |       |          | Sampling Date             |       | 25-May-24  |          | <div>Approved:<br/>S.Sarhaddi<br/>--e-signature--<br/>14-Aug-2024</div> |      |                                 |     |          |          |       |          |     |  |
| ALS Sample ID                  |  | L2756078-8                                                                                                                                        |      |          |          |       |          | Extraction Date           |       | 6-Jul-24   |          |                                                                         |      |                                 |     |          |          |       |          |     |  |
| Analysis Method                |  | EPA 1668C                                                                                                                                         |      |          |          |       |          | Sample Size               |       | 1.33 g dwt |          |                                                                         |      |                                 |     |          |          |       |          |     |  |
| Analysis Type                  |  | Sample                                                                                                                                            |      |          |          |       |          | Percent Moisture          |       | 70.0%      |          |                                                                         |      |                                 |     |          |          |       |          |     |  |
| Sample Matrix                  |  | Tissue                                                                                                                                            |      |          |          |       |          | Split Ratio               |       | 4          |          |                                                                         |      |                                 |     |          |          |       |          |     |  |
| Run Information                |  | Run 1                                                                                                                                             |      |          |          |       |          | Run 2                     |       |            |          |                                                                         |      | Run 3                           |     |          |          |       |          |     |  |
| Filename                       |  | 6-240714A21                                                                                                                                       |      |          |          |       |          | 6-240718A27               |       |            |          |                                                                         |      | 6-240812C10                     |     |          |          |       |          |     |  |
| Run Date                       |  | 14-Jul-24 22:45                                                                                                                                   |      |          |          |       |          | 19-Jul-24 08:36           |       |            |          |                                                                         |      | 12-Aug-24 22:05                 |     |          |          |       |          |     |  |
| Final Volume                   |  | 25 ul                                                                                                                                             |      |          |          |       |          | 25 uL                     |       |            |          |                                                                         |      | 10 uL                           |     |          |          |       |          |     |  |
| Dilution Factor                |  | 1                                                                                                                                                 |      |          |          |       |          | 5                         |       |            |          |                                                                         |      | 1                               |     |          |          |       |          |     |  |
| Analysis Units                 |  | pg/g dwt                                                                                                                                          |      |          |          |       |          | pg/g dwt                  |       |            |          |                                                                         |      | pg/g dwt                        |     |          |          |       |          |     |  |
| Instrument - Column            |  | HRMS-6 SPBOCTYL-281311-07                                                                                                                         |      |          |          |       |          | HRMS-6 SPBOCTYL-283388-03 |       |            |          |                                                                         |      | HRMS-6 SPBOCTYL-283388-03       |     |          |          |       |          |     |  |
| Target Analytes                |  | TEF                                                                                                                                               | Ret. | Conc.    | EDL      | EMPC  |          | Ret.                      | Conc. | EDL        | EMPC     |                                                                         | Ret. | Conc.                           | EDL | EMPC     |          |       |          |     |  |
|                                |  | (WHO 2005)                                                                                                                                        | Time | pg/g dwt | pg/g dwt | Flags | pg/g dwt |                           | LQL   | pg/g dwt   | pg/g dwt | Flags                                                                   |      | pg/g dwt                        | LQL | pg/g dwt | pg/g dwt | Flags | pg/g dwt | LQL |  |
| Homologue Group Totals         |  |                                                                                                                                                   |      | pg/g dwt | pg/g dwt | Flags |          |                           |       |            |          |                                                                         |      |                                 |     |          |          |       |          |     |  |
| Total MonoCB                   |  |                                                                                                                                                   |      | 3.50     | 2.4      | J     |          |                           |       |            |          |                                                                         |      |                                 |     |          |          |       |          |     |  |
| Total DiCB                     |  |                                                                                                                                                   |      | 173      | 15       | J     |          |                           |       |            |          |                                                                         |      |                                 |     |          |          |       |          |     |  |
| Total TriCB                    |  |                                                                                                                                                   |      | 72.9     | 5.1      | J     |          |                           |       |            |          |                                                                         |      |                                 |     |          |          |       |          |     |  |
| Total TetraCB                  |  |                                                                                                                                                   |      | 332      | 2.5      | J     |          |                           |       |            |          |                                                                         |      |                                 |     |          |          |       |          |     |  |
| Total PentaCB                  |  |                                                                                                                                                   |      | 3000     | 0.63     | J     |          |                           |       |            |          |                                                                         |      |                                 |     |          |          |       |          |     |  |
| Total HexaCB                   |  |                                                                                                                                                   |      | 4760     | 0.39     | J     |          |                           |       |            |          |                                                                         |      |                                 |     |          |          |       |          |     |  |
| Total HeptaCB                  |  |                                                                                                                                                   |      | 7810     | 3.8      | J     |          |                           |       |            |          |                                                                         |      |                                 |     |          |          |       |          |     |  |
| Total OctaCB                   |  |                                                                                                                                                   |      | 5960     | 1.4      | J     |          |                           |       |            |          |                                                                         |      |                                 |     |          |          |       |          |     |  |
| Total NonaCB                   |  |                                                                                                                                                   |      | 585      | 2.8      | J     |          |                           |       |            |          |                                                                         |      |                                 |     |          |          |       |          |     |  |
| DecaCB                         |  |                                                                                                                                                   |      | 69.4     | 1.2      | J     |          |                           |       |            |          |                                                                         |      |                                 |     |          |          |       |          |     |  |
| Total PCB                      |  |                                                                                                                                                   |      | 22800    |          | J     |          |                           |       |            |          |                                                                         |      |                                 |     |          |          |       |          |     |  |
| Toxic Equivalency - (WHO 2005) |  |                                                                                                                                                   |      |          |          |       |          |                           |       |            |          |                                                                         |      |                                 |     |          |          |       |          |     |  |
| Lower Bound PCB TEQ            |  |                                                                                                                                                   |      | 7.32     |          |       |          |                           |       |            |          |                                                                         |      |                                 |     |          |          |       |          |     |  |
| Mid Point PCB TEQ              |  |                                                                                                                                                   |      | 7.53     |          |       |          |                           |       |            |          |                                                                         |      |                                 |     |          |          |       |          |     |  |
| Upper Bound PCB TEQ            |  |                                                                                                                                                   |      | 7.53     |          |       |          |                           |       |            |          |                                                                         |      |                                 |     |          |          |       |          |     |  |
| EDL                            |  | Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.                                   |      |          |          |       |          |                           |       |            |          |                                                                         |      |                                 |     |          |          |       |          |     |  |
| TEF                            |  | Indicates the Toxic Equivalency Factor                                                                                                            |      |          |          |       |          |                           |       |            |          | TEQ                                                                     |      | Indicates the Toxic Equivalency |     |          |          |       |          |     |  |
| LQL                            |  | Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.                                |      |          |          |       |          |                           |       |            |          |                                                                         |      |                                 |     |          |          |       |          |     |  |
| M                              |  | Indicates that a peak has been manually integrated.                                                                                               |      |          |          |       |          |                           |       |            |          |                                                                         |      |                                 |     |          |          |       |          |     |  |
| U                              |  | Indicates that this compound was not detected above the EDL.                                                                                      |      |          |          |       |          |                           |       |            |          |                                                                         |      |                                 |     |          |          |       |          |     |  |
| J                              |  | Indicates that the analyte was positively identified. The associated numerical result is an estimate.                                             |      |          |          |       |          |                           |       |            |          |                                                                         |      |                                 |     |          |          |       |          |     |  |
| R                              |  | Indicates that the ion abundance ratio for this analyte did not meet the control limit. The reported value represents an estimated concentration. |      |          |          |       |          |                           |       |            |          |                                                                         |      |                                 |     |          |          |       |          |     |  |
| EMPC                           |  | Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure                          |      |          |          |       |          |                           |       |            |          |                                                                         |      |                                 |     |          |          |       |          |     |  |



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| Sample Analysis Report |  |
|------------------------|--|

|                 |                   |                  |           |       |                                                            |
|-----------------|-------------------|------------------|-----------|-------|------------------------------------------------------------|
| Sample Name     | PLOT 123 - 3 JARS | Sampling Date    | 25-May-24 | g dwt | Approved:<br>S. Sarhaddi<br>--e-signature--<br>14-Aug-2024 |
| ALS Sample ID   | L2756078-9        | Extraction Date  | 6-Jul-24  |       |                                                            |
| Analysis Method | EPA 1668C         | Sample Size      | 2.82      |       |                                                            |
| Analysis Type   | Sample            | Percent Moisture | 72.1%     |       |                                                            |
| Sample Matrix   | Tissue            | Split Ratio      | 4         |       |                                                            |

| Run Information     | Run 1                     | Run 2                     |
|---------------------|---------------------------|---------------------------|
| Filename            | 6-240714A22               | 6-240718A28               |
| Run Date            | 14-Jul-24 23:32           | 19-Jul-24 09:22           |
| Final Volume        | 25 ul                     | 25 uL                     |
| Dilution Factor     | 1                         | 10                        |
| Analysis Units      | pg/g dwt                  | pg/g dwt                  |
| Instrument - Column | HRMS-6 SPBOCTYL-281311-07 | HRMS-6 SPBOCTYL-283388-03 |

| Target Analytes | TEF                 | Ret.   | Conc.    | EDL      |       | EMPC     | LQL | Ret. | Conc.    | EDL      |       | EMPC     | LQL |
|-----------------|---------------------|--------|----------|----------|-------|----------|-----|------|----------|----------|-------|----------|-----|
|                 | (WHO 2005)          | Time   | pg/g dwt | pg/g dwt | Flags | pg/g dwt |     | Time | pg/g dwt | pg/g dwt | Flags | pg/g dwt |     |
|                 | PCB-001             | NotFnd | <1.7     | 1.7      | U     |          | 35  |      |          |          |       |          |     |
|                 | PCB-002             | NotFnd | <1.8     | 1.8      | U     |          | 35  |      |          |          |       |          |     |
|                 | PCB-003             | NotFnd | <2.0     | 2.0      | U     |          | 35  |      |          |          |       |          |     |
|                 | PCB-004             | NotFnd | <13      | 13       | U     |          | 35  |      |          |          |       |          |     |
|                 | PCB-010             | NotFnd | <7.6     | 7.6      | U     |          | 35  |      |          |          |       |          |     |
|                 | PCB-009             | NotFnd | <8.1     | 8.1      | U     |          | 35  |      |          |          |       |          |     |
|                 | PCB-007             | NotFnd | <7.9     | 7.9      | U     |          | 35  |      |          |          |       |          |     |
|                 | PCB-006             | NotFnd | <8.0     | 8.0      | U     |          | 35  |      |          |          |       |          |     |
|                 | PCB-005             | NotFnd | <8.5     | 8.5      | U     |          | 35  |      |          |          |       |          |     |
|                 | PCB-008             | NotFnd | <7.5     | 7.5      | U     |          | 35  |      |          |          |       |          |     |
|                 | PCB-014             | NotFnd | <15      | 15       | U     |          | 35  |      |          |          |       |          |     |
|                 | PCB-011             | 14.48  | 122      | 15       | M     |          | 35  |      |          |          |       |          |     |
|                 | PCB-012/013         | NotFnd | <15      | 15       | U     |          | 35  |      |          |          |       |          |     |
|                 | PCB-015             | NotFnd | <17      | 17       | U     |          | 35  |      |          |          |       |          |     |
|                 | PCB-019             | NotFnd | <4.4     | 4.4      | U     |          | 35  |      |          |          |       |          |     |
|                 | PCB-018/030         | 14.29  | <4.6     | 4.0      | J,R   | 4.6      | 35  |      |          |          |       |          |     |
|                 | PCB-017             | 14.52  | <4.6     | 4.6      | M,U   |          | 35  |      |          |          |       |          |     |
|                 | PCB-027             | NotFnd | <3.4     | 3.4      | U     |          | 35  |      |          |          |       |          |     |
|                 | PCB-024             | NotFnd | <3.9     | 3.9      | U     |          | 35  |      |          |          |       |          |     |
|                 | PCB-016             | NotFnd | <5.3     | 5.3      | U     |          | 35  |      |          |          |       |          |     |
|                 | PCB-032             | 15.11  | <3.1     | 3.1      | M,U   | 1.3      | 35  |      |          |          |       |          |     |
|                 | PCB-034             | NotFnd | <3.3     | 3.3      | U     |          | 35  |      |          |          |       |          |     |
|                 | PCB-023             | NotFnd | <3.3     | 3.3      | U     |          | 35  |      |          |          |       |          |     |
|                 | PCB-026/029         | NotFnd | <3.1     | 3.1      | U     |          | 35  |      |          |          |       |          |     |
|                 | PCB-025             | NotFnd | <3.0     | 3.0      | U     |          | 35  |      |          |          |       |          |     |
|                 | PCB-031             | 16.41  | <6.4     | 2.9      | J,R   | 6.4      | 35  |      |          |          |       |          |     |
|                 | PCB-020/028         | 16.57  | 85.1     | 3.2      | M     |          | 35  |      |          |          |       |          |     |
|                 | PCB-021/033         | 16.71  | 6.45     | 3.0      | M,J   |          | 35  |      |          |          |       |          |     |
|                 | PCB-022             | 16.97  | <3.4     | 3.4      | M,U   | 3.4      | 35  |      |          |          |       |          |     |
|                 | PCB-036             | NotFnd | <2.9     | 2.9      | U     |          | 35  |      |          |          |       |          |     |
|                 | PCB-039             | NotFnd | <3.5     | 3.5      | U     |          | 35  |      |          |          |       |          |     |
|                 | PCB-038             | NotFnd | <3.3     | 3.3      | U     |          | 35  |      |          |          |       |          |     |
|                 | PCB-035             | NotFnd | <3.4     | 3.4      | U     |          | 35  |      |          |          |       |          |     |
|                 | PCB-037             | 18.85  | <13      | 3.5      | M,J,R | 13       | 35  |      |          |          |       |          |     |
|                 | PCB-054             | NotFnd | <1.8     | 1.8      | U     |          | 35  |      |          |          |       |          |     |
|                 | PCB-050/053         | NotFnd | <3.1     | 3.1      | U     |          | 35  |      |          |          |       |          |     |
|                 | PCB-045/051         | 16.67  | <3.3     | 3.3      | U     | 2.3      | 35  |      |          |          |       |          |     |
|                 | PCB-046             | NotFnd | <3.6     | 3.6      | U     |          | 35  |      |          |          |       |          |     |
|                 | PCB-052             | 17.57  | 22.7     | 3.2      | J     |          | 35  |      |          |          |       |          |     |
|                 | PCB-073             | NotFnd | <2.3     | 2.3      | U     |          | 35  |      |          |          |       |          |     |
|                 | PCB-043             | NotFnd | <3.7     | 3.7      | U     |          | 35  |      |          |          |       |          |     |
|                 | PCB-049/069         | 17.86  | 5.88     | 2.6      | M,J   |          | 35  |      |          |          |       |          |     |
|                 | PCB-048             | 18.02  | <3.1     | 3.1      | U     | 1.2      | 35  |      |          |          |       |          |     |
|                 | PCB-044/047/065     | 18.14  | <24      | 2.7      | J,R   | 24       | 35  |      |          |          |       |          |     |
|                 | PCB-059/062/075     | NotFnd | <2.3     | 2.3      | U     |          | 35  |      |          |          |       |          |     |
|                 | PCB-042             | NotFnd | <3.6     | 3.6      | U     |          | 35  |      |          |          |       |          |     |
|                 | PCB-040/041/071     | NotFnd | <3.2     | 3.2      | U     |          | 35  |      |          |          |       |          |     |
|                 | PCB-064             | 18.82  | <3.1     | 2.3      | J,R   | 3.1      | 35  |      |          |          |       |          |     |
|                 | PCB-072             | NotFnd | <3.5     | 3.5      | U     |          | 35  |      |          |          |       |          |     |
|                 | PCB-068             | NotFnd | <3.5     | 3.5      | U     |          | 35  |      |          |          |       |          |     |
|                 | PCB-057             | NotFnd | <3.7     | 3.7      | U     |          | 35  |      |          |          |       |          |     |
|                 | PCB-058             | NotFnd | <3.5     | 3.5      | U     |          | 35  |      |          |          |       |          |     |
|                 | PCB-067             | NotFnd | <3.0     | 3.0      | U     |          | 35  |      |          |          |       |          |     |
|                 | PCB-063             | 20.00  | <4.0     | 3.5      | J,R   | 4.0      | 35  |      |          |          |       |          |     |
|                 | PCB-061/070/074/076 | 20.21  | 242      | 3.4      |       |          | 35  |      |          |          |       |          |     |
|                 | PCB-066             | 20.36  | 73.4     | 3.4      |       |          | 35  |      |          |          |       |          |     |
|                 | PCB-055             | NotFnd | <3.8     | 3.8      | U     |          | 35  |      |          |          |       |          |     |
|                 | PCB-056             | 20.78  | <3.4     | 3.4      | U     | 2.6      | 35  |      |          |          |       |          |     |
|                 | PCB-060             | 20.86  | <36      | 3.6      | R     | 36       | 35  |      |          |          |       |          |     |
|                 | PCB-080             | NotFnd | <2.9     | 2.9      | U     |          | 35  |      |          |          |       |          |     |
|                 | PCB-079             | NotFnd | <3.1     | 3.1      | U     |          | 35  |      |          |          |       |          |     |
|                 | PCB-078             | NotFnd | <3.8     | 3.8      | U     |          | 35  |      |          |          |       |          |     |
|                 | PCB-081             | 0.0003 | 22.40    | <4.9     | 3.8   | J,R      | 4.9 | 35   |          |          |       |          |     |
|                 | PCB-077             | 0.0001 | 22.71    | 50.4     | 4.2   |          | 35  |      |          |          |       |          |     |
|                 | PCB-104             | NotFnd | <2.2     | 2.2      | U     |          | 35  |      |          |          |       |          |     |
|                 | PCB-096             | NotFnd | <3.1     | 3.1      | U     |          | 35  |      |          |          |       |          |     |
|                 | PCB-103             | NotFnd | <6.9     | 6.9      | U     |          | 35  |      |          |          |       |          |     |
|                 | PCB-094             | NotFnd | <7.5     | 7.5      | U     |          | 35  |      |          |          |       |          |     |
|                 | PCB-095             | 19.72  | 22.9     | 8.5      | M,J   |          | 35  |      |          |          |       |          |     |
|                 | PCB-093/098/100/102 | 19.91  | <6.5     | 6.5      | U     | 1.4      | 35  |      |          |          |       |          |     |

| ALS Life Sciences           |  |                           |              |                   |                 |       |                           |     |              |                   |                                                                         |       |                  |     |       |  |
|-----------------------------|--|---------------------------|--------------|-------------------|-----------------|-------|---------------------------|-----|--------------|-------------------|-------------------------------------------------------------------------|-------|------------------|-----|-------|--|
| Sample Analysis Report      |  |                           |              |                   |                 |       |                           |     |              |                   |                                                                         |       |                  |     |       |  |
| Sample Name                 |  | PLOT 123 - 3 JARS         |              |                   |                 |       | Sampling Date             |     | 25-May-24    |                   | <div>Approved:<br/>S.Sarhaddi<br/>--e-signature--<br/>14-Aug-2024</div> |       |                  |     |       |  |
| ALS Sample ID               |  | L2756078-9                |              |                   |                 |       | Extraction Date           |     | 6-Jul-24     |                   |                                                                         |       |                  |     |       |  |
| Analysis Method             |  | EPA 1668C                 |              |                   |                 |       | Sample Size               |     | 2.82         |                   |                                                                         |       |                  |     | g dwt |  |
| Analysis Type               |  | Sample                    |              |                   |                 |       | Percent Moisture          |     | 72.1%        |                   |                                                                         |       |                  |     |       |  |
| Sample Matrix               |  | Tissue                    |              |                   |                 |       | Split Ratio               |     | 4            |                   |                                                                         |       |                  |     |       |  |
| Run Information             |  | Run 1                     |              |                   |                 |       | Run 2                     |     |              |                   |                                                                         |       |                  |     |       |  |
| Filename                    |  | 6-240714A22               |              |                   |                 |       | 6-240718A28               |     |              |                   |                                                                         |       |                  |     |       |  |
| Run Date                    |  | 14-Jul-24 23:32           |              |                   |                 |       | 19-Jul-24 09:22           |     |              |                   |                                                                         |       |                  |     |       |  |
| Final Volume                |  | 25 ul                     |              |                   |                 |       | 25 uL                     |     |              |                   |                                                                         |       |                  |     |       |  |
| Dilution Factor             |  | 1                         |              |                   |                 |       | 10                        |     |              |                   |                                                                         |       |                  |     |       |  |
| Analysis Units              |  | pg/g dwt                  |              |                   |                 |       | pg/g dwt                  |     |              |                   |                                                                         |       |                  |     |       |  |
| Instrument - Column         |  | HRMS-6 SPBOCTYL-281311-07 |              |                   |                 |       | HRMS-6 SPBOCTYL-283388-03 |     |              |                   |                                                                         |       |                  |     |       |  |
| Target Analytes             |  | TEF<br>(WHO 2005)         | Ret.<br>Time | Conc.<br>pg/g dwt | EDL<br>pg/g dwt | Flags | EMPC<br>pg/g dwt          | LQL | Ret.<br>Time | Conc.<br>pg/g dwt | EDL<br>pg/g dwt                                                         | Flags | EMPC<br>pg/g dwt | LQL |       |  |
| PCB-088/091                 |  |                           | NotFnd       | <7.1              | 7.1             | U     |                           | 35  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-084                     |  |                           | 20.34        | <7.3              | 7.3             | U     | 3.5                       | 35  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-089                     |  |                           | NotFnd       | <8.8              | 8.8             | U     |                           | 35  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-121                     |  |                           | NotFnd       | <4.9              | 4.9             | U     |                           | 35  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-092                     |  |                           | 20.92        | 13.2              | 7.9             | J     |                           | 35  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-090/101/113             |  |                           | 21.22        | 53.8              | 5.7             |       |                           | 35  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-083/099                 |  |                           | 21.53        | 213               | 7.3             |       |                           | 35  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-112                     |  |                           | NotFnd       | <4.6              | 4.6             | U     |                           | 35  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-086/087/097/109/119/125 |  |                           | 21.91        | 26.9              | 5.5             | M,J   |                           | 35  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-085/110/115/116/117     |  |                           | 22.32        | 125               | 5.3             | M     |                           | 35  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-082                     |  |                           | NotFnd       | <9.0              | 9.0             | U     |                           | 35  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-111                     |  |                           | 22.60        | <4.6              | 4.6             | U     | 1.2                       | 35  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-120                     |  |                           | 22.87        | <4.7              | 4.7             | U     | 2.1                       | 35  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-108/124                 |  |                           | 23.49        | 6.94              | 6.0             | J     |                           | 35  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-107                     |  |                           | 23.61        | 71.3              | 5.9             | M     |                           | 35  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-123                     |  | 0.00003                   | 23.69        | <6.8              | 6.8             | M,U   | 3.9                       | 35  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-106                     |  |                           | NotFnd       | <6.6              | 6.6             | U     |                           | 35  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-118                     |  | 0.00003                   | 23.84        | 2780              | 5.1             |       |                           | 35  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-122                     |  |                           | NotFnd       | <7.8              | 7.8             | U     |                           | 35  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-114                     |  | 0.00003                   | 24.15        | <34               | 7.0             | J,R   | 34                        | 35  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-105                     |  | 0.00003                   | 24.51        | 565               | 6.1             |       |                           | 35  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-127                     |  |                           | NotFnd       | <5.8              | 5.8             | U     |                           | 35  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-126                     |  | 0.1                       | 26.10        | 99.4              | 6.9             |       |                           | 35  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-155                     |  |                           | NotFnd       | <1.1              | 1.1             | U     |                           | 35  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-152                     |  |                           | NotFnd       | <2.2              | 2.2             | U     |                           | 35  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-150                     |  |                           | NotFnd       | <1.7              | 1.7             | U     |                           | 35  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-136                     |  |                           | 21.58        | <2.8              | 2.0             | J,R   | 2.8                       | 35  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-145                     |  |                           | NotFnd       | <1.9              | 1.9             | U     |                           | 35  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-148                     |  |                           | NotFnd       | <2.6              | 2.6             | U     |                           | 35  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-135/151                 |  |                           | 22.75        | 41.5              | 2.6             |       |                           | 35  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-154                     |  |                           | NotFnd       | <2.0              | 2.0             | U     |                           | 35  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-144                     |  |                           | 23.07        | <2.6              | 2.6             | M,U   | 2.1                       | 35  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-147/149                 |  |                           | 23.24        | <6.5              | 6.5             | M,U   | 0.078                     | 35  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-134/143                 |  |                           | 23.41        | <8.1              | 8.1             | U     | 3.3                       | 35  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-139/140                 |  |                           | 23.54        | <6.2              | 6.2             | U     | 3.5                       | 35  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-131                     |  |                           | NotFnd       | <8.1              | 8.1             | U     |                           | 35  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-142                     |  |                           | NotFnd       | <8.1              | 8.1             | U     |                           | 35  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-132                     |  |                           | 23.95        | <24               | 7.6             | J,R   | 24                        | 35  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-133                     |  |                           | 24.11        | 41.9              | 7.2             |       |                           | 35  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-165                     |  |                           | NotFnd       | <5.4              | 5.4             | U     |                           | 35  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-146                     |  |                           | 24.44        | 193               | 5.9             |       |                           | 35  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-161                     |  |                           | NotFnd       | <4.4              | 4.4             | U     |                           | 35  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-153/168                 |  |                           | 24.75        | 2160              | 4.9             |       |                           | 35  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-141                     |  |                           | 24.89        | 52.9              | 6.2             |       |                           | 35  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-130                     |  |                           | 25.12        | 103               | 7.6             |       |                           | 35  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-137/164                 |  |                           | 25.22        | 38.5              | 5.4             |       |                           | 35  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-129/138/163             |  |                           | 25.46        | 1810              | 6.0             |       |                           | 35  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-160                     |  |                           | NotFnd       | <4.9              | 4.9             | U     |                           | 35  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-158                     |  |                           | 25.64        | 116               | 3.9             |       |                           | 35  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-128/166                 |  |                           | 26.16        | 173               | 5.2             | M     |                           | 35  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-159                     |  |                           | NotFnd       | <4.3              | 4.3             | U     |                           | 35  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-162                     |  |                           | 26.72        | <17               | 4.7             | J,R   | 17                        | 35  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-167                     |  | 0.00003                   | 26.97        | 315               | 4.0             |       |                           | 35  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-156/157                 |  | 0.00003                   | 27.60        | 643               | 6.1             |       |                           | 71  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-169                     |  | 0.03                      | 29.27        | 34.5              | 4.6             | J     |                           | 35  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-188                     |  |                           | 24.10        | <2.3              | 2.3             | U     | 0.48                      | 35  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-179                     |  |                           | 24.31        | <5.1              | 3.0             | J,R   | 5.1                       | 35  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-184                     |  |                           | 24.52        | <2.7              | 2.7             | U     | 1.4                       | 35  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-176                     |  |                           | 24.79        | <2.8              | 2.8             | U     | 0.75                      | 35  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-186                     |  |                           | NotFnd       | <3.1              | 3.1             | U     |                           | 35  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-178                     |  |                           | 25.64        | 285               | 4.1             |       |                           | 35  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-175                     |  |                           | 25.96        | <10               | 3.9             | J,R   | 10                        | 35  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-187                     |  |                           | 26.10        | 1380              | 3.6             |       |                           | 35  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-182                     |  |                           | NotFnd       | <3.5              | 3.5             | U     |                           | 35  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-183                     |  |                           | 26.42        | 430               | 3.6             |       |                           | 35  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-185                     |  |                           | 26.51        | 11.8              | 4.2             | J     |                           | 35  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-174                     |  |                           | 26.60        | <28               | 3.6             | J,R   | 28                        | 35  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-177                     |  |                           | 26.83        | 663               | 4.0             |       |                           | 35  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-181                     |  |                           | 27.01        | <4.0              | 4.0             | U     | 3.9                       | 35  |              |                   |                                                                         |       |                  |     |       |  |
| PCB-171/173                 |  |                           |              |                   |                 |       |                           |     | 27.15        | <83               | 39                                                                      | M,J,R | 83               | 350 |       |  |
| PCB-172                     |  |                           | 27.92        | 399               | 3.8             |       |                           | 35  |              |                   |                                                                         |       |                  |     |       |  |



| ALS Life Sciences      |  |                           |              |                   |                 |       |                           |       |              |                   |                                                                         |       |                  |     |
|------------------------|--|---------------------------|--------------|-------------------|-----------------|-------|---------------------------|-------|--------------|-------------------|-------------------------------------------------------------------------|-------|------------------|-----|
| Sample Analysis Report |  |                           |              |                   |                 |       |                           |       |              |                   |                                                                         |       |                  |     |
| Sample Name            |  | PLOT 123 - 3 JARS         |              |                   |                 |       | Sampling Date             |       | 25-May-24    |                   | <div>Approved:<br/>S.Sarhaddi<br/>--e-signature--<br/>14-Aug-2024</div> |       |                  |     |
| ALS Sample ID          |  | L2756078-9                |              |                   |                 |       | Extraction Date           |       | 6-Jul-24     |                   |                                                                         |       |                  |     |
| Analysis Method        |  | EPA 1668C                 |              |                   |                 |       | Sample Size               |       | 2.82 g dwt   |                   |                                                                         |       |                  |     |
| Analysis Type          |  | Sample                    |              |                   |                 |       | Percent Moisture          |       | 72.1%        |                   |                                                                         |       |                  |     |
| Sample Matrix          |  | Tissue                    |              |                   |                 |       | Split Ratio               |       | 4            |                   |                                                                         |       |                  |     |
| Run Information        |  | Run 1                     |              |                   |                 |       | Run 2                     |       |              |                   |                                                                         |       |                  |     |
| Filename               |  | 6-240714A22               |              |                   |                 |       | 6-240718A28               |       |              |                   |                                                                         |       |                  |     |
| Run Date               |  | 14-Jul-24 23:32           |              |                   |                 |       | 19-Jul-24 09:22           |       |              |                   |                                                                         |       |                  |     |
| Final Volume           |  | 25 ul                     |              |                   |                 |       | 25 uL                     |       |              |                   |                                                                         |       |                  |     |
| Dilution Factor        |  | 1                         |              |                   |                 |       | 10                        |       |              |                   |                                                                         |       |                  |     |
| Analysis Units         |  | pg/g dwt                  |              |                   |                 |       | pg/g dwt                  |       |              |                   |                                                                         |       |                  |     |
| Instrument - Column    |  | HRMS-6 SPBOCTYL-281311-07 |              |                   |                 |       | HRMS-6 SPBOCTYL-283388-03 |       |              |                   |                                                                         |       |                  |     |
| Target Analytes        |  | TEF<br>(WHO 2005)         | Ret.<br>Time | Conc.<br>pg/g dwt | EDL<br>pg/g dwt | Flags | EMPC<br>pg/g dwt          | LQL   | Ret.<br>Time | Conc.<br>pg/g dwt | EDL<br>pg/g dwt                                                         | Flags | EMPC<br>pg/g dwt | LQL |
| PCB-192                |  | 0.00003                   | 28.08        | <3.2              | 3.2             | U     | 1.3                       | 35    |              |                   |                                                                         |       |                  |     |
| PCB-180/193            |  |                           | 28.25        | 4310              | 3.1             |       |                           | 35    |              |                   |                                                                         |       |                  |     |
| PCB-191                |  |                           | 28.45        | <18               | 2.6             | J,R   | 18                        | 35    |              |                   |                                                                         |       |                  |     |
| PCB-170                |  |                           | 28.97        | 677               | 3.7             |       |                           | 35    |              |                   |                                                                         |       |                  |     |
| PCB-190                |  |                           | 29.22        | 502               | 2.3             |       |                           | 35    |              |                   |                                                                         |       |                  |     |
| PCB-189                |  |                           | 30.54        | 166               | 2.3             |       |                           | 35    |              |                   |                                                                         |       |                  |     |
| PCB-202                |  |                           | 26.85        | 119               | 1.0             |       |                           | 35    |              |                   |                                                                         |       |                  |     |
| PCB-201                |  |                           | 27.31        | 15.7              | 1.2             | J     |                           | 35    |              |                   |                                                                         |       |                  |     |
| PCB-204                |  |                           | NotFnd       | <1.2              | 1.2             | U     |                           | 35    |              |                   |                                                                         |       |                  |     |
| PCB-197                |  |                           | 27.77        | <14               | 1.3             | J,R   | 14                        | 35    |              |                   |                                                                         |       |                  |     |
| PCB-200                |  |                           | 27.88        | <1.3              | 1.3             | M,U   | 1.2                       | 35    |              |                   |                                                                         |       |                  |     |
| PCB-198/199            |  |                           | 29.27        | 1570              | 1.6             |       |                           | 35    |              |                   |                                                                         |       |                  |     |
| PCB-196                |  |                           | 29.60        | 146               | 1.5             |       |                           | 35    |              |                   |                                                                         |       |                  |     |
| PCB-203                |  |                           | 29.69        | 807               | 1.5             |       |                           | 35    |              |                   |                                                                         |       |                  |     |
| PCB-195                |  |                           |              |                   |                 |       |                           |       | 30.46        | <280              | 28                                                                      | J,R   | 280              | 350 |
| PCB-194                |  | 31.70                     | 1910         | 2.5               |                 |       | 35                        |       |              |                   |                                                                         |       |                  |     |
| PCB-205                |  | 32.00                     | 117          | 2.5               |                 |       | 35                        |       |              |                   |                                                                         |       |                  |     |
| PCB-208                |  |                           |              |                   |                 |       |                           | 30.29 | <48          | 44                | J,R                                                                     | 48    | 350              |     |
| PCB-207                |  | 30.75                     | 30.9         | 5.1               | J               |       | 35                        |       |              |                   |                                                                         |       |                  |     |
| PCB-206                |  | 33.12                     | 437          | 4.2               |                 |       | 35                        |       |              |                   |                                                                         |       |                  |     |
| PCB-209                |  | 34.30                     | 126          | 0.71              |                 |       | 35                        |       |              |                   |                                                                         |       |                  |     |
| Extraction Standards   |  | pg                        | Time         | % Rec             | Limits          |       |                           |       | Time         | % Rec             | Limits                                                                  |       |                  |     |
| 13C12-PCB-001          |  | 4000                      | 9.39         | 36                | 5-145           |       |                           |       |              |                   |                                                                         |       |                  |     |
| 13C12-PCB-003          |  | 4000                      | 10.96        | 40                | 5-145           |       |                           |       |              |                   |                                                                         |       |                  |     |
| 13C12-PCB-004          |  | 4000                      | 11.13        | 48                | 5-145           |       |                           |       |              |                   |                                                                         |       |                  |     |
| 13C12-PCB-015          |  | 4000                      | 14.87        | 46                | 5-145           |       |                           |       |              |                   |                                                                         |       |                  |     |
| 13C12-PCB-019          |  | 4000                      | 13.16        | 50                | 5-145           |       |                           |       |              |                   |                                                                         |       |                  |     |
| 13C12-PCB-037          |  | 4000                      | 18.83        | 55                | 5-145           |       |                           |       |              |                   |                                                                         |       |                  |     |
| 13C12-PCB-054          |  | 4000                      | 15.04        | 53                | 5-145           |       |                           |       |              |                   |                                                                         |       |                  |     |
| 13C12-PCB-081          |  | 4000                      | 22.40        | 62                | 10-145          |       |                           |       |              |                   |                                                                         |       |                  |     |
| 13C12-PCB-077          |  | 4000                      | 22.71        | 60                | 10-145          |       |                           |       |              |                   |                                                                         |       |                  |     |
| 13C12-PCB-104          |  | 4000                      | 18.08        | 59                | 10-145          |       |                           |       |              |                   |                                                                         |       |                  |     |
| 13C12-PCB-123          |  | 4000                      | 23.66        | 64                | 10-145          |       |                           |       |              |                   |                                                                         |       |                  |     |
| 13C12-PCB-118          |  | 4000                      | 23.83        | 78                | 10-145          |       |                           |       |              |                   |                                                                         |       |                  |     |
| 13C12-PCB-114          |  | 4000                      | 24.13        | 63                | 10-145          |       |                           |       |              |                   |                                                                         |       |                  |     |
| 13C12-PCB-105          |  | 4000                      | 24.50        | 68                | 10-145          |       |                           |       |              |                   |                                                                         |       |                  |     |
| 13C12-PCB-126          |  | 4000                      | 26.09        | 67                | 10-145          |       |                           |       |              |                   |                                                                         |       |                  |     |
| 13C12-PCB-155          |  | 4000                      | 21.05        | 66                | 10-145          |       |                           |       |              |                   |                                                                         |       |                  |     |
| 13C12-PCB-167          |  | 4000                      | 26.95        | 64                | 10-145          |       |                           |       |              |                   |                                                                         |       |                  |     |
| 13C12-PCB-156/157      |  | 8000                      | 27.60        | 62                | 10-145          |       |                           |       |              |                   |                                                                         |       |                  |     |
| 13C12-PCB-169          |  | 4000                      | 29.26        | 62                | 10-145          | R     |                           |       |              |                   |                                                                         |       |                  |     |
| 13C12-PCB-188          |  | 4000                      | 24.06        | 61                | 10-145          |       |                           |       |              |                   |                                                                         |       |                  |     |
| 13C12-PCB-189          |  | 4000                      | 30.52        | 58                | 10-145          |       |                           |       |              |                   |                                                                         |       |                  |     |
| 13C12-PCB-202          |  | 4000                      | 26.84        | 66                | 10-145          |       |                           |       |              |                   |                                                                         |       |                  |     |
| 13C12-PCB-205          |  | 4000                      | 31.99        | 67                | 10-145          |       |                           |       |              |                   |                                                                         |       |                  |     |
| 13C12-PCB-208          |  | 4000                      |              |                   |                 |       |                           | 30.27 | 75           | 10-145            |                                                                         |       |                  |     |
| 13C12-PCB-206          |  | 4000                      | 33.11        | 71                | 10-145          |       |                           |       |              |                   |                                                                         |       |                  |     |
| 13C12-PCB-209          |  | 4000                      | 34.28        | 78                | 10-145          |       |                           |       |              |                   |                                                                         |       |                  |     |
| Cleanup Standards      |  |                           |              |                   |                 |       |                           |       |              |                   |                                                                         |       |                  |     |
| 13C12-PCB-028          |  | 4000                      | 16.56        | 55                | 5-145           |       |                           |       |              |                   |                                                                         |       |                  |     |
| 13C12-PCB-111          |  | 4000                      | 22.58        | 70                | 10-145          |       |                           |       |              |                   |                                                                         |       |                  |     |
| 13C12-PCB-178          |  | 4000                      | 25.63        | 65                | 10-145          |       |                           |       |              |                   |                                                                         |       |                  |     |

| ALS Life Sciences              |  |                                                                                                                                                   |  |              |                   |                 |       |                                 |      |              |  |                                                                         |                 |       |                  |       |  |
|--------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------|-------------------|-----------------|-------|---------------------------------|------|--------------|--|-------------------------------------------------------------------------|-----------------|-------|------------------|-------|--|
| Sample Analysis Report         |  |                                                                                                                                                   |  |              |                   |                 |       |                                 |      |              |  |                                                                         |                 |       |                  |       |  |
| Sample Name                    |  | PLOT 123 - 3 JARS                                                                                                                                 |  |              |                   |                 |       | Sampling Date                   |      | 25-May-24    |  | <div>Approved:<br/>S.Sarhaddi<br/>--e-signature--<br/>14-Aug-2024</div> |                 |       |                  |       |  |
| ALS Sample ID                  |  | L2756078-9                                                                                                                                        |  |              |                   |                 |       | Extraction Date                 |      | 6-Jul-24     |  |                                                                         |                 |       |                  |       |  |
| Analysis Method                |  | EPA 1668C                                                                                                                                         |  |              |                   |                 |       | Sample Size                     |      | 2.82         |  |                                                                         |                 |       |                  | g dwt |  |
| Analysis Type                  |  | Sample                                                                                                                                            |  |              |                   |                 |       | Percent Moisture                |      | 72.1%        |  |                                                                         |                 |       |                  |       |  |
| Sample Matrix                  |  | Tissue                                                                                                                                            |  |              |                   |                 |       | Split Ratio                     |      | 4            |  |                                                                         |                 |       |                  |       |  |
| Run Information                |  | Run 1                                                                                                                                             |  |              |                   |                 |       | Run 2                           |      |              |  |                                                                         |                 |       |                  |       |  |
| Filename                       |  | 6-240714A22                                                                                                                                       |  |              |                   |                 |       | 6-240718A28                     |      |              |  |                                                                         |                 |       |                  |       |  |
| Run Date                       |  | 14-Jul-24 23:32                                                                                                                                   |  |              |                   |                 |       | 19-Jul-24 09:22                 |      |              |  |                                                                         |                 |       |                  |       |  |
| Final Volume                   |  | 25 ul                                                                                                                                             |  |              |                   |                 |       | 25 uL                           |      |              |  |                                                                         |                 |       |                  |       |  |
| Dilution Factor                |  | 1                                                                                                                                                 |  |              |                   |                 |       | 10                              |      |              |  |                                                                         |                 |       |                  |       |  |
| Analysis Units                 |  | pg/g dwt                                                                                                                                          |  |              |                   |                 |       | pg/g dwt                        |      |              |  |                                                                         |                 |       |                  |       |  |
| Instrument - Column            |  | HRMS-6 SPBOCTYL-281311-07                                                                                                                         |  |              |                   |                 |       | HRMS-6 SPBOCTYL-283388-03       |      |              |  |                                                                         |                 |       |                  |       |  |
|                                |  |                                                                                                                                                   |  |              |                   |                 |       |                                 |      |              |  |                                                                         |                 |       |                  |       |  |
| Target Analytes                |  | TEF<br>(WHO 2005)                                                                                                                                 |  | Ret.<br>Time | Conc.<br>pg/g dwt | EDL<br>pg/g dwt | Flags | EMPC<br>pg/g dwt                | LQL  | Ret.<br>Time |  | Conc.<br>pg/g dwt                                                       | EDL<br>pg/g dwt | Flags | EMPC<br>pg/g dwt | LQL   |  |
| Homologue Group Totals         |  |                                                                                                                                                   |  |              | pg/g dwt          | pg/g dwt        | Flags |                                 | LQL  |              |  |                                                                         |                 |       |                  |       |  |
| Total MonoCB                   |  |                                                                                                                                                   |  |              | <1.7              | 1.7             | U     |                                 | 140  |              |  |                                                                         |                 |       |                  |       |  |
| Total DiCB                     |  |                                                                                                                                                   |  |              | 122               | 7.5             | J     |                                 | 280  |              |  |                                                                         |                 |       |                  |       |  |
| Total TriCB                    |  |                                                                                                                                                   |  |              | 116               | 2.9             | J     |                                 | 280  |              |  |                                                                         |                 |       |                  |       |  |
| Total TetraCB                  |  |                                                                                                                                                   |  |              | 466               | 1.8             | J     |                                 | 570  |              |  |                                                                         |                 |       |                  |       |  |
| Total PentaCB                  |  |                                                                                                                                                   |  |              | 4010              | 2.2             | J     |                                 | 570  |              |  |                                                                         |                 |       |                  |       |  |
| Total HexaCB                   |  |                                                                                                                                                   |  |              | 5770              | 1.1             | J     |                                 | 570  |              |  |                                                                         |                 |       |                  |       |  |
| Total HeptaCB                  |  |                                                                                                                                                   |  |              | 8970              | 2.3             | J     |                                 | 280  |              |  |                                                                         |                 |       |                  |       |  |
| Total OctaCB                   |  |                                                                                                                                                   |  |              | 4980              | 1.0             | J     |                                 | 280  |              |  |                                                                         |                 |       |                  |       |  |
| Total NonaCB                   |  |                                                                                                                                                   |  |              | 516               | 4.2             | J     |                                 | 140  |              |  |                                                                         |                 |       |                  |       |  |
| DecaCB                         |  |                                                                                                                                                   |  |              | 126               | 0.71            | J     |                                 | 140  |              |  |                                                                         |                 |       |                  |       |  |
| Total PCB                      |  |                                                                                                                                                   |  |              | 25100             |                 | J     |                                 | 1100 |              |  |                                                                         |                 |       |                  |       |  |
|                                |  |                                                                                                                                                   |  |              |                   |                 |       |                                 |      |              |  |                                                                         |                 |       |                  |       |  |
| Toxic Equivalency - (WHO 2005) |  |                                                                                                                                                   |  |              |                   |                 |       |                                 |      |              |  |                                                                         |                 |       |                  |       |  |
| Lower Bound PCB TEQ            |  |                                                                                                                                                   |  |              | 11.1              |                 |       |                                 |      |              |  |                                                                         |                 |       |                  |       |  |
| Mid Point PCB TEQ              |  |                                                                                                                                                   |  |              | 11.1              |                 |       |                                 |      |              |  |                                                                         |                 |       |                  |       |  |
| Upper Bound PCB TEQ            |  |                                                                                                                                                   |  |              | 11.1              |                 |       |                                 |      |              |  |                                                                         |                 |       |                  |       |  |
|                                |  |                                                                                                                                                   |  |              |                   |                 |       |                                 |      |              |  |                                                                         |                 |       |                  |       |  |
| EDL                            |  | Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.                                   |  |              |                   |                 |       |                                 |      |              |  |                                                                         |                 |       |                  |       |  |
| TEF                            |  | Indicates the Toxic Equivalency Factor                                                                                                            |  |              |                   | TEQ             |       | Indicates the Toxic Equivalency |      |              |  |                                                                         |                 |       |                  |       |  |
| LQL                            |  | Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.                                |  |              |                   |                 |       |                                 |      |              |  |                                                                         |                 |       |                  |       |  |
| M                              |  | Indicates that a peak has been manually integrated.                                                                                               |  |              |                   |                 |       |                                 |      |              |  |                                                                         |                 |       |                  |       |  |
| U                              |  | Indicates that this compound was not detected above the EDL.                                                                                      |  |              |                   |                 |       |                                 |      |              |  |                                                                         |                 |       |                  |       |  |
|                                |  |                                                                                                                                                   |  |              |                   |                 |       |                                 |      |              |  |                                                                         |                 |       |                  |       |  |
| J                              |  | Indicates that the analyte was positively identified. The associated numerical result is an estimate.                                             |  |              |                   |                 |       |                                 |      |              |  |                                                                         |                 |       |                  |       |  |
| R                              |  | Indicates that the ion abundance ratio for this analyte did not meet the control limit. The reported value represents an estimated concentration. |  |              |                   |                 |       |                                 |      |              |  |                                                                         |                 |       |                  |       |  |
|                                |  |                                                                                                                                                   |  |              |                   |                 |       |                                 |      |              |  |                                                                         |                 |       |                  |       |  |
| EMPC                           |  | Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure                          |  |              |                   |                 |       |                                 |      |              |  |                                                                         |                 |       |                  |       |  |

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## Sample Analysis Report

|                    |                          |                  |           |       |                                                                                 |
|--------------------|--------------------------|------------------|-----------|-------|---------------------------------------------------------------------------------|
| <b>Sample Name</b> | <b>PLOT 402 - 6 JARS</b> | Sampling Date    | 25-May-24 | g dwt | <div>Approved:<br/><i>S. Sarhaddi</i><br/>--e-signature--<br/>14-Aug-2024</div> |
| ALS Sample ID      | L2756078-10              | Extraction Date  | 6-Jul-24  |       |                                                                                 |
| Analysis Method    | EPA 1668C                | Sample Size      | 2.86      |       |                                                                                 |
| Analysis Type      | Sample                   | Percent Moisture | 72.7%     |       |                                                                                 |
| Sample Matrix      | Tissue                   | Split Ratio      | 4         |       |                                                                                 |

| Run Information     | Run 1                     | Run 2                     |
|---------------------|---------------------------|---------------------------|
| Filename            | 6-240714A23               | 6-240718A29               |
| Run Date            | 15-Jul-24 00:18           | 19-Jul-24 10:08           |
| Final Volume        | 25 ul                     | 25 uL                     |
| Dilution Factor     | 1                         | 10                        |
| Analysis Units      | pg/g dwt                  | pg/g dwt                  |
| Instrument - Column | HRMS-6 SPBOCTYL-281311-07 | HRMS-6 SPBOCTYL-283388-03 |

[illegible]



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|-----------------------------|--|---------------------------|--------------|-------------------|-----------------|-------|---------------------------|-----|--------------|-------------------|--------------------------------------------------------------------------|-------|------------------|-----|
| Sample Analysis Report      |  |                           |              |                   |                 |       |                           |     |              |                   |                                                                          |       |                  |     |
| Sample Name                 |  | PLOT 402 - 6 JARS         |              |                   |                 |       | Sampling Date             |     | 25-May-24    |                   | <div>Approved:<br/>S. Sarhaddi<br/>--e-signature--<br/>14-Aug-2024</div> |       |                  |     |
| ALS Sample ID               |  | L2756078-10               |              |                   |                 |       | Extraction Date           |     | 6-Jul-24     |                   |                                                                          |       |                  |     |
| Analysis Method             |  | EPA 1668C                 |              |                   |                 |       | Sample Size               |     | 2.86 g dwt   |                   |                                                                          |       |                  |     |
| Analysis Type               |  | Sample                    |              |                   |                 |       | Percent Moisture          |     | 72.7%        |                   |                                                                          |       |                  |     |
| Sample Matrix               |  | Tissue                    |              |                   |                 |       | Split Ratio               |     | 4            |                   |                                                                          |       |                  |     |
| Run Information             |  | Run 1                     |              |                   |                 |       | Run 2                     |     |              |                   |                                                                          |       |                  |     |
| Filename                    |  | 6-240714A23               |              |                   |                 |       | 6-240718A29               |     |              |                   |                                                                          |       |                  |     |
| Run Date                    |  | 15-Jul-24 00:18           |              |                   |                 |       | 19-Jul-24 10:08           |     |              |                   |                                                                          |       |                  |     |
| Final Volume                |  | 25 ul                     |              |                   |                 |       | 25 uL                     |     |              |                   |                                                                          |       |                  |     |
| Dilution Factor             |  | 1                         |              |                   |                 |       | 10                        |     |              |                   |                                                                          |       |                  |     |
| Analysis Units              |  | pg/g dwt                  |              |                   |                 |       | pg/g dwt                  |     |              |                   |                                                                          |       |                  |     |
| Instrument - Column         |  | HRMS-6 SPBOCTYL-281311-07 |              |                   |                 |       | HRMS-6 SPBOCTYL-283388-03 |     |              |                   |                                                                          |       |                  |     |
|                             |  |                           |              |                   |                 |       |                           |     |              |                   |                                                                          |       |                  |     |
| Target Analytes             |  | TEF<br>(WHO 2005)         | Ret.<br>Time | Conc.<br>pg/g dwt | EDL<br>pg/g dwt | Flags | EMPC<br>pg/g dwt          | LQL | Ret.<br>Time | Conc.<br>pg/g dwt | EDL<br>pg/g dwt                                                          | Flags | EMPC<br>pg/g dwt | LQL |
| PCB-088/091                 |  |                           | NotFnd       | <3.7              | 3.7             | U     |                           | 35  |              |                   |                                                                          |       |                  |     |
| PCB-084                     |  |                           | NotFnd       | <3.9              | 3.9             | U     |                           | 35  |              |                   |                                                                          |       |                  |     |
| PCB-089                     |  |                           | NotFnd       | <4.6              | 4.6             | U     |                           | 35  |              |                   |                                                                          |       |                  |     |
| PCB-121                     |  |                           | NotFnd       | <2.6              | 2.6             | U     |                           | 35  |              |                   |                                                                          |       |                  |     |
| PCB-092                     |  |                           | NotFnd       | <4.2              | 4.2             | U     |                           | 35  |              |                   |                                                                          |       |                  |     |
| PCB-090/101/113             |  |                           | 21.22        | <6.4              | 3.0             | M,J,R | 6.4                       | 35  |              |                   |                                                                          |       |                  |     |
| PCB-083/099                 |  |                           | 21.54        | 12.0              | 3.8             | J     |                           | 35  |              |                   |                                                                          |       |                  |     |
| PCB-112                     |  |                           | NotFnd       | <2.4              | 2.4             | U     |                           | 35  |              |                   |                                                                          |       |                  |     |
| PCB-086/087/097/109/119/125 |  |                           | 21.90        | <4.9              | 2.9             | M,J,R | 4.9                       | 35  |              |                   |                                                                          |       |                  |     |
| PCB-085/110/115/116/117     |  |                           | 22.31        | <14               | 2.8             | M,J,R | 14                        | 35  |              |                   |                                                                          |       |                  |     |
| PCB-082                     |  |                           | NotFnd       | <4.7              | 4.7             | U     |                           | 35  |              |                   |                                                                          |       |                  |     |
| PCB-111                     |  |                           | NotFnd       | <2.4              | 2.4             | U     |                           | 35  |              |                   |                                                                          |       |                  |     |
| PCB-120                     |  |                           | NotFnd       | <2.5              | 2.5             | U     |                           | 35  |              |                   |                                                                          |       |                  |     |
| PCB-108/124                 |  |                           | NotFnd       | <2.4              | 2.4             | U     |                           | 35  |              |                   |                                                                          |       |                  |     |
| PCB-107                     |  |                           | 23.61        | <2.3              | 2.3             | U     | 2.2                       | 35  |              |                   |                                                                          |       |                  |     |
| PCB-123                     |  | 0.00003                   | NotFnd       | <2.8              | 2.8             | U     |                           | 35  |              |                   |                                                                          |       |                  |     |
| PCB-106                     |  |                           | NotFnd       | <2.6              | 2.6             | U     |                           | 35  |              |                   |                                                                          |       |                  |     |
| PCB-118                     |  | 0.00003                   | 23.84        | 138               | 2.3             |       |                           | 35  |              |                   |                                                                          |       |                  |     |
| PCB-122                     |  |                           | 24.02        | <3.1              | 3.1             | U     | 1.4                       | 35  |              |                   |                                                                          |       |                  |     |
| PCB-114                     |  | 0.00003                   | 24.17        | <2.8              | 2.6             | J,R   | 2.8                       | 35  |              |                   |                                                                          |       |                  |     |
| PCB-105                     |  | 0.00003                   | 24.51        | <25               | 2.6             | J,R   | 25                        | 35  |              |                   |                                                                          |       |                  |     |
| PCB-127                     |  |                           | NotFnd       | <2.3              | 2.3             | U     |                           | 35  |              |                   |                                                                          |       |                  |     |
| PCB-126                     |  | 0.1                       | 26.10        | <6.1              | 2.9             | J,R   | 6.1                       | 35  |              |                   |                                                                          |       |                  |     |
| PCB-155                     |  |                           | NotFnd       | <0.55             | 0.55            | U     |                           | 35  |              |                   |                                                                          |       |                  |     |
| PCB-152                     |  |                           | NotFnd       | <1.1              | 1.1             | U     |                           | 35  |              |                   |                                                                          |       |                  |     |
| PCB-150                     |  |                           | NotFnd       | <0.81             | 0.81            | U     |                           | 35  |              |                   |                                                                          |       |                  |     |
| PCB-136                     |  |                           | 21.56        | <0.95             | 0.95            | U     | 0.80                      | 35  |              |                   |                                                                          |       |                  |     |
| PCB-145                     |  |                           | NotFnd       | <0.93             | 0.93            | U     |                           | 35  |              |                   |                                                                          |       |                  |     |
| PCB-148                     |  |                           | NotFnd       | <1.2              | 1.2             | U     |                           | 35  |              |                   |                                                                          |       |                  |     |
| PCB-135/151                 |  |                           | 22.75        | <1.6              | 1.3             | J,R   | 1.6                       | 35  |              |                   |                                                                          |       |                  |     |
| PCB-154                     |  |                           | 22.81        | <0.98             | 0.98            | M,U   | 0.83                      | 35  |              |                   |                                                                          |       |                  |     |
| PCB-144                     |  |                           | NotFnd       | <1.3              | 1.3             | U     |                           | 35  |              |                   |                                                                          |       |                  |     |
| PCB-147/149                 |  |                           | 23.19        | <2.7              | 2.7             | M,U   | 0.0036                    | 35  |              |                   |                                                                          |       |                  |     |
| PCB-134/143                 |  |                           | NotFnd       | <3.4              | 3.4             | U     |                           | 35  |              |                   |                                                                          |       |                  |     |
| PCB-139/140                 |  |                           | NotFnd       | <2.6              | 2.6             | U     |                           | 35  |              |                   |                                                                          |       |                  |     |
| PCB-131                     |  |                           | NotFnd       | <3.3              | 3.3             | U     |                           | 35  |              |                   |                                                                          |       |                  |     |
| PCB-142                     |  |                           | NotFnd       | <3.4              | 3.4             | U     |                           | 35  |              |                   |                                                                          |       |                  |     |
| PCB-132                     |  |                           | 23.95        | <3.1              | 3.1             | U     | 2.8                       | 35  |              |                   |                                                                          |       |                  |     |
| PCB-133                     |  |                           | 24.12        | <3.0              | 3.0             | U     | 0.71                      | 35  |              |                   |                                                                          |       |                  |     |
| PCB-165                     |  |                           | NotFnd       | <2.2              | 2.2             | U     |                           | 35  |              |                   |                                                                          |       |                  |     |
| PCB-146                     |  |                           | 24.45        | 6.80              | 2.4             | J     |                           | 35  |              |                   |                                                                          |       |                  |     |
| PCB-161                     |  |                           | NotFnd       | <1.8              | 1.8             | U     |                           | 35  |              |                   |                                                                          |       |                  |     |
| PCB-153/168                 |  |                           | 24.75        | 131               | 2.0             |       |                           | 35  |              |                   |                                                                          |       |                  |     |
| PCB-141                     |  |                           | 24.89        | <3.2              | 2.5             | J,R   | 3.2                       | 35  |              |                   |                                                                          |       |                  |     |
| PCB-130                     |  |                           | 25.12        | 5.43              | 3.2             | J     |                           | 35  |              |                   |                                                                          |       |                  |     |
| PCB-137/164                 |  |                           | 25.28        | <3.0              | 2.2             | M,J,R | 3.0                       | 35  |              |                   |                                                                          |       |                  |     |
| PCB-129/138/163             |  |                           | 25.46        | 118               | 2.5             |       |                           | 35  |              |                   |                                                                          |       |                  |     |
| PCB-160                     |  |                           | NotFnd       | <2.0              | 2.0             | U     |                           | 35  |              |                   |                                                                          |       |                  |     |
| PCB-158                     |  |                           | 25.64        | <4.3              | 1.6             | J,R   | 4.3                       | 35  |              |                   |                                                                          |       |                  |     |
| PCB-128/166                 |  |                           | 26.16        | 11.2              | 2.2             | M,J   |                           | 35  |              |                   |                                                                          |       |                  |     |
| PCB-159                     |  |                           | 26.56        | <1.8              | 1.8             | U     |                           | 35  |              |                   |                                                                          |       |                  |     |
| PCB-162                     |  |                           | 26.72        | <1.9              | 1.9             | U     | 0.42                      | 35  |              |                   |                                                                          |       |                  |     |
| PCB-167                     |  | 0.00003                   | 26.97        | 19.3              | 1.6             | J     |                           | 35  |              |                   |                                                                          |       |                  |     |
| PCB-156/157                 |  | 0.00003                   | 27.60        | 36.6              | 2.5             | J     |                           | 70  |              |                   |                                                                          |       |                  |     |
| PCB-169                     |  | 0.03                      | 29.27        | <4.2              | 1.9             | M,J,R | 4.2                       | 35  |              |                   |                                                                          |       |                  |     |
| PCB-188                     |  |                           | NotFnd       | <1.6              | 1.6             | U     |                           | 35  |              |                   |                                                                          |       |                  |     |
| PCB-179                     |  |                           | 24.30        | <2.1              | 2.1             | U     | 0.89                      | 35  |              |                   |                                                                          |       |                  |     |
| PCB-184                     |  |                           | NotFnd       | <1.9              | 1.9             | U     |                           | 35  |              |                   |                                                                          |       |                  |     |
| PCB-176                     |  |                           | 24.76        | <2.0              | 2.0             | U     | 0.51                      | 35  |              |                   |                                                                          |       |                  |     |
| PCB-186                     |  |                           | NotFnd       | <2.2              | 2.2             | U     |                           | 35  |              |                   |                                                                          |       |                  |     |
| PCB-178                     |  |                           | 25.66        | <19               | 2.9             | J,R   | 19                        | 35  |              |                   |                                                                          |       |                  |     |
| PCB-175                     |  |                           | NotFnd       | <2.8              | 2.8             | U     |                           | 35  |              |                   |                                                                          |       |                  |     |
| PCB-187                     |  |                           | 26.10        | 94.0              | 2.5             |       |                           | 35  |              |                   |                                                                          |       |                  |     |
| PCB-182                     |  |                           | NotFnd       | <2.5              | 2.5             | U     |                           | 35  |              |                   |                                                                          |       |                  |     |
| PCB-183                     |  |                           | 26.42        | 15.5              | 2.5             | J     |                           | 35  |              |                   |                                                                          |       |                  |     |
| PCB-185                     |  |                           | NotFnd       | <3.0              | 3.0             | U     |                           | 35  |              |                   |                                                                          |       |                  |     |
| PCB-174                     |  |                           | 26.59        | <3.3              | 2.5             | J,R   | 3.3                       | 35  |              |                   |                                                                          |       |                  |     |
| PCB-177                     |  |                           | 26.82        | 44.0              | 2.8             |       |                           | 35  |              |                   |                                                                          |       |                  |     |
| PCB-181                     |  |                           | 27.01        | <2.8              | 2.8             | U     | 0.47                      | 35  |              |                   |                                                                          |       |                  |     |
| PCB-171/173                 |  |                           |              |                   |                 |       |                           |     | NotFnd       | <25               | 25                                                                       | M,U   |                  | 350 |
| PCB-172                     |  |                           | 27.93        | <12               | 2.7             | J,R   | 12                        | 35  |              |                   |                                                                          |       |                  |     |

| ALS Life Sciences      |  |                             |              |                   |                 |                  |                             |           |              |                                                                         |                 |       |                  |     |       |  |
|------------------------|--|-----------------------------|--------------|-------------------|-----------------|------------------|-----------------------------|-----------|--------------|-------------------------------------------------------------------------|-----------------|-------|------------------|-----|-------|--|
| Sample Analysis Report |  |                             |              |                   |                 |                  |                             |           |              |                                                                         |                 |       |                  |     |       |  |
| Sample Name            |  | PLOT 402 - 6 JARS           |              |                   |                 | Sampling Date    |                             | 25-May-24 |              | <div>Approved:<br/>S.Sarhaddi<br/>--e-signature--<br/>14-Aug-2024</div> |                 |       |                  |     |       |  |
| ALS Sample ID          |  | L2756078-10                 |              |                   |                 | Extraction Date  |                             | 6-Jul-24  |              |                                                                         |                 |       |                  |     |       |  |
| Analysis Method        |  | EPA 1668C                   |              |                   |                 | Sample Size      |                             | 2.86      |              |                                                                         |                 |       |                  |     | g dwt |  |
| Analysis Type          |  | Sample                      |              |                   |                 | Percent Moisture |                             | 72.7%     |              |                                                                         |                 |       |                  |     |       |  |
| Sample Matrix          |  | Tissue                      |              |                   |                 | Split Ratio      |                             | 4         |              |                                                                         |                 |       |                  |     |       |  |
| Run Information        |  | Run 1                       |              |                   |                 |                  | Run 2                       |           |              |                                                                         |                 |       |                  |     |       |  |
| Filename               |  | 6-240714A23                 |              |                   |                 |                  | 6-240718A29                 |           |              |                                                                         |                 |       |                  |     |       |  |
| Run Date               |  | 15-Jul-24 00:18             |              |                   |                 |                  | 19-Jul-24 10:08             |           |              |                                                                         |                 |       |                  |     |       |  |
| Final Volume           |  | 25    ul                    |              |                   |                 |                  | 25    uL                    |           |              |                                                                         |                 |       |                  |     |       |  |
| Dilution Factor        |  | 1                           |              |                   |                 |                  | 10                          |           |              |                                                                         |                 |       |                  |     |       |  |
| Analysis Units         |  | pg/g dwt                    |              |                   |                 |                  | pg/g dwt                    |           |              |                                                                         |                 |       |                  |     |       |  |
| Instrument - Column    |  | HRMS-6   SPBOCTYL-281311-07 |              |                   |                 |                  | HRMS-6   SPBOCTYL-283388-03 |           |              |                                                                         |                 |       |                  |     |       |  |
| Target Analytes        |  | TEF<br>(WHO 2005)           | Ret.<br>Time | Conc.<br>pg/g dwt | EDL<br>pg/g dwt | Flags            | EMPC<br>pg/g dwt            | LQL       | Ret.<br>Time | Conc.<br>pg/g dwt                                                       | EDL<br>pg/g dwt | Flags | EMPC<br>pg/g dwt | LQL |       |  |
| PCB-192                |  | 0.00003                     | NotFnd       | <2.2              | 2.2             | U                |                             | 35        |              |                                                                         |                 |       |                  |     |       |  |
| PCB-180/193            |  |                             | 28.27        | 255               | 2.2             |                  |                             | 35        |              |                                                                         |                 |       |                  |     |       |  |
| PCB-191                |  |                             | 28.48        | <1.9              | 1.9             | U                | 0.44                        | 35        |              |                                                                         |                 |       |                  |     |       |  |
| PCB-170                |  |                             | 28.97        | 32.0              | 2.6             | J                |                             | 35        |              |                                                                         |                 |       |                  |     |       |  |
| PCB-190                |  |                             | 29.23        | <40               | 1.6             | R                | 40                          | 35        |              |                                                                         |                 |       |                  |     |       |  |
| PCB-189                |  |                             | 30.54        | <11               | 1.0             | J,R              | 11                          | 35        |              |                                                                         |                 |       |                  |     |       |  |
| PCB-202                |  |                             | 26.85        | 13.3              | 0.80            | J                |                             | 35        |              |                                                                         |                 |       |                  |     |       |  |
| PCB-201                |  |                             | 27.34        | <1.7              | 0.99            | J,R              | 1.7                         | 35        |              |                                                                         |                 |       |                  |     |       |  |
| PCB-204                |  |                             | NotFnd       | <0.97             | 0.97            | U                |                             | 35        |              |                                                                         |                 |       |                  |     |       |  |
| PCB-197                |  |                             | 27.77        | <1.1              | 1.1             | U                | 0.64                        | 35        |              |                                                                         |                 |       |                  |     |       |  |
| PCB-200                |  | 27.90                       | <1.0         | 1.0               | U               | 0.35             | 35                          |           |              |                                                                         |                 |       |                  |     |       |  |
| PCB-198/199            |  | 29.27                       | 186          | 1.3               |                 |                  | 35                          |           |              |                                                                         |                 |       |                  |     |       |  |
| PCB-196                |  | 29.61                       | <3.8         | 1.3               | J,R             | 3.8              | 35                          |           |              |                                                                         |                 |       |                  |     |       |  |
| PCB-203                |  | 29.70                       | <76          | 1.2               | R               | 76               | 35                          |           |              |                                                                         |                 |       |                  |     |       |  |
| PCB-195                |  |                             |              |                   |                 |                  |                             |           | 30.50        | <36                                                                     | 24              | J,R   | 36               | 350 |       |  |
| PCB-194                |  | 31.71                       | 168          | 1.2               |                 |                  | 35                          |           |              |                                                                         |                 |       |                  |     |       |  |
| PCB-205                |  | 32.00                       | <12          | 1.3               | J,R             | 12               | 35                          |           |              |                                                                         |                 |       |                  |     |       |  |
| PCB-208                |  |                             |              |                   |                 |                  |                             |           | NotFnd       | <32                                                                     | 32              | U     |                  | 350 |       |  |
| PCB-207                |  | 30.76                       | <2.6         | 2.6               | M,U             | 1.8              | 35                          |           |              |                                                                         |                 |       |                  |     |       |  |
| PCB-206                |  | 33.13                       | 77.9         | 2.2               |                 |                  | 35                          |           |              |                                                                         |                 |       |                  |     |       |  |
| PCB-209                |  | 34.31                       | 26.8         | 0.78              | J               |                  | 35                          |           |              |                                                                         |                 |       |                  |     |       |  |
| Extraction Standards   |  | pg                          | Time         | % Rec             | Limits          |                  |                             |           | Time         | % Rec                                                                   | Limits          |       |                  |     |       |  |
| 13C12-PCB-001          |  | 4000                        | 9.39         | 52                | 5-145           |                  |                             |           |              |                                                                         |                 |       |                  |     |       |  |
| 13C12-PCB-003          |  | 4000                        | 10.96        | 55                | 5-145           |                  |                             |           |              |                                                                         |                 |       |                  |     |       |  |
| 13C12-PCB-004          |  | 4000                        | 11.13        | 69                | 5-145           |                  |                             |           |              |                                                                         |                 |       |                  |     |       |  |
| 13C12-PCB-015          |  | 4000                        | 14.86        | 66                | 5-145           |                  |                             |           |              |                                                                         |                 |       |                  |     |       |  |
| 13C12-PCB-019          |  | 4000                        | 13.16        | 69                | 5-145           |                  |                             |           |              |                                                                         |                 |       |                  |     |       |  |
| 13C12-PCB-037          |  | 4000                        | 18.83        | 64                | 5-145           |                  |                             |           |              |                                                                         |                 |       |                  |     |       |  |
| 13C12-PCB-054          |  | 4000                        | 15.04        | 66                | 5-145           |                  |                             |           |              |                                                                         |                 |       |                  |     |       |  |
| 13C12-PCB-081          |  | 4000                        | 22.40        | 84                | 10-145          |                  |                             |           |              |                                                                         |                 |       |                  |     |       |  |
| 13C12-PCB-077          |  | 4000                        | 22.70        | 83                | 10-145          |                  |                             |           |              |                                                                         |                 |       |                  |     |       |  |
| 13C12-PCB-104          |  | 4000                        | 18.08        | 86                | 10-145          |                  |                             |           |              |                                                                         |                 |       |                  |     |       |  |
| 13C12-PCB-123          |  | 4000                        | 23.66        | 86                | 10-145          |                  |                             |           |              |                                                                         |                 |       |                  |     |       |  |
| 13C12-PCB-118          |  | 4000                        | 23.83        | 98                | 10-145          |                  |                             |           |              |                                                                         |                 |       |                  |     |       |  |
| 13C12-PCB-114          |  | 4000                        | 24.15        | 86                | 10-145          |                  |                             |           |              |                                                                         |                 |       |                  |     |       |  |
| 13C12-PCB-105          |  | 4000                        | 24.50        | 91                | 10-145          |                  |                             |           |              |                                                                         |                 |       |                  |     |       |  |
| 13C12-PCB-126          |  | 4000                        | 26.09        | 88                | 10-145          |                  |                             |           |              |                                                                         |                 |       |                  |     |       |  |
| 13C12-PCB-155          |  | 4000                        | 21.05        | 86                | 10-145          |                  |                             |           |              |                                                                         |                 |       |                  |     |       |  |
| 13C12-PCB-167          |  | 4000                        | 26.96        | 87                | 10-145          |                  |                             |           |              |                                                                         |                 |       |                  |     |       |  |
| 13C12-PCB-156/157      |  | 8000                        | 27.60        | 81                | 10-145          |                  |                             |           |              |                                                                         |                 |       |                  |     |       |  |
| 13C12-PCB-169          |  | 4000                        | 29.26        | 84                | 10-145          |                  |                             |           |              |                                                                         |                 |       |                  |     |       |  |
| 13C12-PCB-188          |  | 4000                        | 24.06        | 82                | 10-145          |                  |                             |           |              |                                                                         |                 |       |                  |     |       |  |
| 13C12-PCB-189          |  | 4000                        | 30.52        | 78                | 10-145          |                  |                             |           |              |                                                                         |                 |       |                  |     |       |  |
| 13C12-PCB-202          |  | 4000                        | 26.84        | 87                | 10-145          |                  |                             |           |              |                                                                         |                 |       |                  |     |       |  |
| 13C12-PCB-205          |  | 4000                        | 31.99        | 91                | 10-145          |                  |                             |           |              |                                                                         |                 |       |                  |     |       |  |
| 13C12-PCB-208          |  | 4000                        | 30.25        | 25                | 10-145          |                  |                             |           | 30.33        | 79                                                                      | 10-145          | R     |                  |     |       |  |
| 13C12-PCB-206          |  | 4000                        | 33.11        | 103               | 10-145          |                  |                             |           |              |                                                                         |                 |       |                  |     |       |  |
| 13C12-PCB-209          |  | 4000                        | 34.28        | 103               | 10-145          |                  |                             |           |              |                                                                         |                 |       |                  |     |       |  |
| Cleanup Standards      |  |                             |              |                   |                 |                  |                             |           |              |                                                                         |                 |       |                  |     |       |  |
| 13C12-PCB-028          |  | 4000                        | 16.55        | 54                | 5-145           |                  |                             |           |              |                                                                         |                 |       |                  |     |       |  |
| 13C12-PCB-111          |  | 4000                        | 22.58        | 71                | 10-145          |                  |                             |           |              |                                                                         |                 |       |                  |     |       |  |
| 13C12-PCB-178          |  | 4000                        | 25.63        | 70                | 10-145          |                  |                             |           |              |                                                                         |                 |       |                  |     |       |  |

| ALS Life Sciences              |  |                                                                                                                                                   |              |                   |                 |       |                           |      |                                 |                   |                                                                         |       |                  |     |
|--------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------|-----------------|-------|---------------------------|------|---------------------------------|-------------------|-------------------------------------------------------------------------|-------|------------------|-----|
| Sample Analysis Report         |  |                                                                                                                                                   |              |                   |                 |       |                           |      |                                 |                   |                                                                         |       |                  |     |
| Sample Name                    |  | PLOT 402 - 6 JARS                                                                                                                                 |              |                   |                 |       | Sampling Date             |      | 25-May-24                       |                   | <div>Approved:<br/>S.Sarhaddi<br/>--e-signature--<br/>14-Aug-2024</div> |       |                  |     |
| ALS Sample ID                  |  | L2756078-10                                                                                                                                       |              |                   |                 |       | Extraction Date           |      | 6-Jul-24                        |                   |                                                                         |       |                  |     |
| Analysis Method                |  | EPA 1668C                                                                                                                                         |              |                   |                 |       | Sample Size               |      | 2.86g dwt                       |                   |                                                                         |       |                  |     |
| Analysis Type                  |  | Sample                                                                                                                                            |              |                   |                 |       | Percent Moisture          |      | 72.7%                           |                   |                                                                         |       |                  |     |
| Sample Matrix                  |  | Tissue                                                                                                                                            |              |                   |                 |       | Split Ratio               |      | 4                               |                   |                                                                         |       |                  |     |
| Run Information                |  | Run 1                                                                                                                                             |              |                   |                 |       | Run 2                     |      |                                 |                   |                                                                         |       |                  |     |
| Filename                       |  | 6-240714A23                                                                                                                                       |              |                   |                 |       | 6-240718A29               |      |                                 |                   |                                                                         |       |                  |     |
| Run Date                       |  | 15-Jul-24 00:18                                                                                                                                   |              |                   |                 |       | 19-Jul-24 10:08           |      |                                 |                   |                                                                         |       |                  |     |
| Final Volume                   |  | 25 ul                                                                                                                                             |              |                   |                 |       | 25 uL                     |      |                                 |                   |                                                                         |       |                  |     |
| Dilution Factor                |  | 1                                                                                                                                                 |              |                   |                 |       | 10                        |      |                                 |                   |                                                                         |       |                  |     |
| Analysis Units                 |  | pg/g dwt                                                                                                                                          |              |                   |                 |       | pg/g dwt                  |      |                                 |                   |                                                                         |       |                  |     |
| Instrument - Column            |  | HRMS-6 SPBOCTYL-281311-07                                                                                                                         |              |                   |                 |       | HRMS-6 SPBOCTYL-283388-03 |      |                                 |                   |                                                                         |       |                  |     |
| Target Analytes                |  | TEF<br>(WHO 2005)                                                                                                                                 | Ret.<br>Time | Conc.<br>pg/g dwt | EDL<br>pg/g dwt | Flags | EMPC<br>pg/g dwt          | LQL  | Ret.<br>Time                    | Conc.<br>pg/g dwt | EDL<br>pg/g dwt                                                         | Flags | EMPC<br>pg/g dwt | LQL |
| Homologue Group Totals         |  |                                                                                                                                                   |              | pg/g dwt          | pg/g dwt        | Flags |                           | LQL  |                                 |                   |                                                                         |       |                  |     |
| Total MonoCB                   |  |                                                                                                                                                   |              | 5.50              | 0.96            | J     |                           | 140  |                                 |                   |                                                                         |       |                  |     |
| Total DiCB                     |  |                                                                                                                                                   |              | 107               | 5.2             | J     |                           | 280  |                                 |                   |                                                                         |       |                  |     |
| Total TriCB                    |  |                                                                                                                                                   |              | 29.7              | 1.9             | J     |                           | 280  |                                 |                   |                                                                         |       |                  |     |
| Total TetraCB                  |  |                                                                                                                                                   |              | 63.3              | 0.50            | J     |                           | 560  |                                 |                   |                                                                         |       |                  |     |
| Total PentaCB                  |  |                                                                                                                                                   |              | 214               | 2.0             | J     |                           | 560  |                                 |                   |                                                                         |       |                  |     |
| Total HexaCB                   |  |                                                                                                                                                   |              | 345               | 0.55            | J     |                           | 560  |                                 |                   |                                                                         |       |                  |     |
| Total HeptaCB                  |  |                                                                                                                                                   |              | 526               | 1.0             | J     |                           | 280  |                                 |                   |                                                                         |       |                  |     |
| Total OctaCB                   |  |                                                                                                                                                   |              | 497               | 0.80            | J     |                           | 280  |                                 |                   |                                                                         |       |                  |     |
| Total NonaCB                   |  |                                                                                                                                                   |              | 77.9              | 2.2             | J     |                           | 140  |                                 |                   |                                                                         |       |                  |     |
| DecaCB                         |  |                                                                                                                                                   |              | 26.8              | 0.78            | J     |                           | 140  |                                 |                   |                                                                         |       |                  |     |
| Total PCB                      |  |                                                                                                                                                   |              | 1890              |                 | J     |                           | 1100 |                                 |                   |                                                                         |       |                  |     |
| Toxic Equivalency - (WHO 2005) |  |                                                                                                                                                   |              |                   |                 |       |                           |      |                                 |                   |                                                                         |       |                  |     |
| Lower Bound PCB TEQ            |  |                                                                                                                                                   |              | 0.00582           |                 |       |                           |      |                                 |                   |                                                                         |       |                  |     |
| Mid Point PCB TEQ              |  |                                                                                                                                                   |              | 0.744             |                 |       |                           |      |                                 |                   |                                                                         |       |                  |     |
| Upper Bound PCB TEQ            |  |                                                                                                                                                   |              | 0.744             |                 |       |                           |      |                                 |                   |                                                                         |       |                  |     |
| EDL                            |  | Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.                                   |              |                   |                 |       |                           |      |                                 |                   |                                                                         |       |                  |     |
| TEF                            |  | Indicates the Toxic Equivalency Factor                                                                                                            |              |                   |                 |       | TEQ                       |      | Indicates the Toxic Equivalency |                   |                                                                         |       |                  |     |
| LQL                            |  | Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.                                |              |                   |                 |       |                           |      |                                 |                   |                                                                         |       |                  |     |
| M                              |  | Indicates that a peak has been manually integrated.                                                                                               |              |                   |                 |       |                           |      |                                 |                   |                                                                         |       |                  |     |
| U                              |  | Indicates that this compound was not detected above the EDL.                                                                                      |              |                   |                 |       |                           |      |                                 |                   |                                                                         |       |                  |     |
| J                              |  | Indicates that the analyte was positively identified. The associated numerical result is an estimate.                                             |              |                   |                 |       |                           |      |                                 |                   |                                                                         |       |                  |     |
| R                              |  | Indicates that the ion abundance ratio for this analyte did not meet the control limit. The reported value represents an estimated concentration. |              |                   |                 |       |                           |      |                                 |                   |                                                                         |       |                  |     |
| EMPC                           |  | Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure                          |              |                   |                 |       |                           |      |                                 |                   |                                                                         |       |                  |     |



| ALS Life Sciences                       |  |                           |              |               |                  |       |              |      |                                                           |
|-----------------------------------------|--|---------------------------|--------------|---------------|------------------|-------|--------------|------|-----------------------------------------------------------|
| Laboratory Method Blank Analysis Report |  |                           |              |               |                  |       |              |      |                                                           |
| Sample Name                             |  | Method Blank              |              |               | Sampling Date    |       | n/a          |      | Approved:<br>S.Sarhaddi<br>--e-signature--<br>15-Aug-2024 |
| ALS Sample ID                           |  | WG3789754-1               |              |               | Extraction Date  |       | 6-Jul-24     |      |                                                           |
| Analysis Method                         |  | EPA 1668C                 |              |               | Sample Size      |       | 3 g          |      |                                                           |
| Analysis Type                           |  | Blank                     |              |               | Percent Moisture |       | n/a          |      |                                                           |
| Sample Matrix                           |  | QC                        |              |               | Split Ratio      |       | 4            |      |                                                           |
| Run Information                         |  | Run 1                     |              |               |                  |       |              |      |                                                           |
| Filename                                |  | 6-240714A05               |              |               |                  |       |              |      |                                                           |
| Run Date                                |  | 14-Jul-24 10:15           |              |               |                  |       |              |      |                                                           |
| Final Volume                            |  | 25 ul                     |              |               |                  |       |              |      |                                                           |
| Dilution Factor                         |  | 1                         |              |               |                  |       |              |      |                                                           |
| Analysis Units                          |  | pg/g                      |              |               |                  |       |              |      |                                                           |
| Instrument - Column                     |  | HRMS-6 SPBOCTYL-281311-07 |              |               |                  |       |              |      |                                                           |
|                                         |  |                           |              |               |                  |       |              |      |                                                           |
| Target Analytes                         |  | TEF<br>(WHO 2005)         | Ret.<br>Time | Conc.<br>pg/g | EDL<br>pg/g      | Flags | EMPC<br>pg/g | LQL  |                                                           |
| PCB-001                                 |  |                           | NotFnd       | <1.7          | 1.7              |       | U            |      | 33                                                        |
| PCB-002                                 |  |                           | NotFnd       | <1.9          | 1.9              |       | U            |      | 33                                                        |
| PCB-003                                 |  |                           | NotFnd       | <2.1          | 2.1              |       | U            |      | 33                                                        |
| PCB-004                                 |  |                           | NotFnd       | <19           | 19               |       | U            |      | 33                                                        |
| PCB-010                                 |  |                           | NotFnd       | <8.9          | 8.9              |       | U            |      | 33                                                        |
| PCB-009                                 |  |                           | NotFnd       | <9.5          | 9.5              |       | U            |      | 33                                                        |
| PCB-007                                 |  |                           | NotFnd       | <9.6          | 9.6              |       | U            |      | 33                                                        |
| PCB-006                                 |  |                           | NotFnd       | <9.4          | 9.4              |       | U            |      | 33                                                        |
| PCB-005                                 |  |                           | NotFnd       | <11           | 11               |       | U            |      | 33                                                        |
| PCB-008                                 |  |                           | NotFnd       | <8.2          | 8.2              |       | U            |      | 33                                                        |
| PCB-014                                 |  |                           | NotFnd       | <14           | 14               |       | U            |      | 33                                                        |
| PCB-011                                 |  |                           | 14.48        | <27           | 14               | M,,R  | 27           |      | 33                                                        |
| PCB-012/013                             |  |                           | NotFnd       | <14           | 14               |       | U            |      | 33                                                        |
| PCB-015                                 |  |                           | NotFnd       | <13           | 13               |       | U            |      | 33                                                        |
| PCB-019                                 |  |                           | NotFnd       | <5.1          | 5.1              |       | U            |      | 33                                                        |
| PCB-018/030                             |  |                           | NotFnd       | <4.2          | 4.2              |       | U            |      | 33                                                        |
| PCB-017                                 |  |                           | NotFnd       | <4.8          | 4.8              |       | U            |      | 33                                                        |
| PCB-027                                 |  |                           | NotFnd       | <3.7          | 3.7              |       | U            |      | 33                                                        |
| PCB-024                                 |  |                           | NotFnd       | <4.1          | 4.1              |       | U            |      | 33                                                        |
| PCB-016                                 |  |                           | NotFnd       | <5.4          | 5.4              |       | U            |      | 33                                                        |
| PCB-032                                 |  |                           | NotFnd       | <3.3          | 3.3              |       | U            |      | 33                                                        |
| PCB-034                                 |  |                           | NotFnd       | <4.6          | 4.6              |       | U            |      | 33                                                        |
| PCB-023                                 |  |                           | NotFnd       | <4.4          | 4.4              |       | U            |      | 33                                                        |
| PCB-026/029                             |  |                           | NotFnd       | <4.3          | 4.3              |       | U            |      | 33                                                        |
| PCB-025                                 |  |                           | NotFnd       | <4.2          | 4.2              |       | U            |      | 33                                                        |
| PCB-031                                 |  |                           | 16.37        | <4.1          | 4.1              |       | U            | 3.5  | 33                                                        |
| PCB-020/028                             |  |                           | 16.58        | <4.4          | 4.4              | M,U   | 3.5          |      | 33                                                        |
| PCB-021/033                             |  |                           | 16.72        | <4.3          | 4.3              | M,U   | 3.6          |      | 33                                                        |
| PCB-022                                 |  |                           | NotFnd       | <4.9          | 4.9              |       | U            |      | 33                                                        |
| PCB-036                                 |  |                           | NotFnd       | <4.1          | 4.1              |       | U            |      | 33                                                        |
| PCB-039                                 |  |                           | NotFnd       | <5.0          | 5.0              |       | U            |      | 33                                                        |
| PCB-038                                 |  |                           | NotFnd       | <4.7          | 4.7              |       | U            |      | 33                                                        |
| PCB-035                                 |  |                           | NotFnd       | <4.9          | 4.9              |       | U            |      | 33                                                        |
| PCB-037                                 |  |                           | NotFnd       | <4.9          | 4.9              |       | U            |      | 33                                                        |
| PCB-054                                 |  |                           | NotFnd       | <1.2          | 1.2              |       | U            |      | 33                                                        |
| PCB-050/053                             |  |                           | NotFnd       | <2.7          | 2.7              |       | U            |      | 33                                                        |
| PCB-045/051                             |  |                           | 16.66        | <2.8          | 2.8              |       | U            | 2.2  | 33                                                        |
| PCB-046                                 |  |                           | NotFnd       | <3.1          | 3.1              |       | U            |      | 33                                                        |
| PCB-052                                 |  |                           | 17.55        | <3.1          | 3.1              |       | U            | 3.0  | 33                                                        |
| PCB-073                                 |  |                           | NotFnd       | <2.0          | 2.0              |       | U            |      | 33                                                        |
| PCB-043                                 |  |                           | NotFnd       | <3.1          | 3.1              |       | U            |      | 33                                                        |
| PCB-049/069                             |  |                           | NotFnd       | <2.4          | 2.4              |       | U            |      | 33                                                        |
| PCB-048                                 |  |                           | 18.08        | <2.8          | 2.8              |       | U            | 0.82 | 33                                                        |
| PCB-044/047/065                         |  |                           | 18.15        | <6.1          | 2.4              | J,R   | 6.1          |      | 33                                                        |
| PCB-059/062/075                         |  |                           | 18.34        | <2.0          | 2.0              |       | U            |      | 33                                                        |
| PCB-042                                 |  |                           | NotFnd       | <3.1          | 3.1              |       | U            |      | 33                                                        |
| PCB-040/041/071                         |  |                           | NotFnd       | <2.8          | 2.8              |       | U            |      | 33                                                        |
| PCB-064                                 |  |                           | NotFnd       | <2.1          | 2.1              |       | U            |      | 33                                                        |
| PCB-072                                 |  |                           | NotFnd       | <2.0          | 2.0              |       | U            |      | 33                                                        |
| PCB-068                                 |  |                           | NotFnd       | <1.9          | 1.9              |       | U            |      | 33                                                        |
| PCB-057                                 |  |                           | NotFnd       | <2.1          | 2.1              |       | U            |      | 33                                                        |
| PCB-058                                 |  |                           | NotFnd       | <2.0          | 2.0              |       | U            |      | 33                                                        |
| PCB-067                                 |  |                           | NotFnd       | <1.7          | 1.7              |       | U            |      | 33                                                        |
| PCB-063                                 |  |                           | NotFnd       | <1.9          | 1.9              |       | U            |      | 33                                                        |
| PCB-061/070/074/076                     |  |                           | 20.19        | <2.6          | 1.9              | M,,R  |              |      | 33                                                        |
| PCB-066                                 |  |                           | 20.38        | <1.9          | 1.9              | M,U   | 1.8          |      | 33                                                        |
| PCB-055                                 |  |                           | NotFnd       | <2.1          | 2.1              |       | U            |      | 33                                                        |
| PCB-056                                 |  |                           | NotFnd       | <1.9          | 1.9              |       | U            |      | 33                                                        |
| PCB-060                                 |  |                           | NotFnd       | <2.0          | 2.0              |       | U            |      | 33                                                        |
| PCB-080                                 |  |                           | NotFnd       | <1.7          | 1.7              |       | U            |      | 33                                                        |
| PCB-079                                 |  |                           | NotFnd       | <1.8          | 1.8              |       | U            |      | 33                                                        |
| PCB-078                                 |  |                           | NotFnd       | <2.2          | 2.2              |       | U            |      | 33                                                        |
| PCB-081                                 |  | 0.0003                    | NotFnd       | <2.2          | 2.2              |       | U            |      | 33                                                        |
| PCB-077                                 |  | 0.0001                    | NotFnd       | <2.5          | 2.5              |       | U            |      | 33                                                        |
| PCB-104                                 |  |                           | NotFnd       | <3.1          | 3.1              |       | U            |      | 33                                                        |
| PCB-096                                 |  |                           | NotFnd       | <4.1          | 4.1              |       | U            |      | 33                                                        |
| PCB-103                                 |  |                           | NotFnd       | <5.1          | 5.1              |       | U            |      | 33                                                        |
| PCB-094                                 |  |                           | NotFnd       | <5.5          | 5.5              |       | U            |      | 33                                                        |
| PCB-095                                 |  |                           | NotFnd       | <6.4          | 6.4              |       | U            |      | 33                                                        |
| PCB-093/098/100/102                     |  |                           | NotFnd       | <4.8          | 4.8              |       | U            |      | 33                                                        |

| ALS Life Sciences                       |  |                           |              |                  |             |          |              |                                                           |  |
|-----------------------------------------|--|---------------------------|--------------|------------------|-------------|----------|--------------|-----------------------------------------------------------|--|
| Laboratory Method Blank Analysis Report |  |                           |              |                  |             |          |              |                                                           |  |
| Sample Name                             |  | Method Blank              |              | Sampling Date    |             | n/a      |              | Approved:<br>S.Sarhaddi<br>--e-signature--<br>15-Aug-2024 |  |
| ALS Sample ID                           |  | WG3789754-1               |              | Extraction Date  |             | 6-Jul-24 |              |                                                           |  |
| Analysis Method                         |  | EPA 1668C                 |              | Sample Size      |             | 3 g      |              |                                                           |  |
| Analysis Type                           |  | Blank                     |              | Percent Moisture |             | n/a      |              |                                                           |  |
| Sample Matrix                           |  | QC                        |              | Split Ratio      |             | 4        |              |                                                           |  |
| Run Information                         |  | Run 1                     |              |                  |             |          |              |                                                           |  |
| Filename                                |  | 6-240714A05               |              |                  |             |          |              |                                                           |  |
| Run Date                                |  | 14-Jul-24 10:15           |              |                  |             |          |              |                                                           |  |
| Final Volume                            |  | 25 ul                     |              |                  |             |          |              |                                                           |  |
| Dilution Factor                         |  | 1                         |              |                  |             |          |              |                                                           |  |
| Analysis Units                          |  | pg/g                      |              |                  |             |          |              |                                                           |  |
| Instrument - Column                     |  | HRMS-6 SPBOCTYL-281311-07 |              |                  |             |          |              |                                                           |  |
|                                         |  |                           |              |                  |             |          |              |                                                           |  |
| Target Analytes                         |  | TEF<br>(WHO 2005)         | Ret.<br>Time | Conc.<br>pg/g    | EDL<br>pg/g | Flags    | EMPC<br>pg/g | LQL                                                       |  |
| PCB-088/091                             |  |                           | NotFnd       | <5.2             | 5.2         | U        |              | 33                                                        |  |
| PCB-084                                 |  |                           | NotFnd       | <5.4             | 5.4         | U        |              | 33                                                        |  |
| PCB-089                                 |  |                           | NotFnd       | <6.5             | 6.5         | U        |              | 33                                                        |  |
| PCB-121                                 |  |                           | NotFnd       | <3.7             | 3.7         | U        |              | 33                                                        |  |
| PCB-092                                 |  |                           | NotFnd       | <5.8             | 5.8         | U        |              | 33                                                        |  |
| PCB-090/101/113                         |  |                           | 21.22        | <4.2             | 4.2         | U        |              | 33                                                        |  |
| PCB-083/099                             |  |                           | NotFnd       | <5.5             | 5.5         | U        |              | 33                                                        |  |
| PCB-112                                 |  |                           | NotFnd       | <3.5             | 3.5         | U        |              | 33                                                        |  |
| PCB-086/087/097/109/119/125             |  |                           | NotFnd       | <4.1             | 4.1         | U        |              | 33                                                        |  |
| PCB-085/110/115/116/117                 |  |                           | NotFnd       | <3.9             | 3.9         | U        |              | 33                                                        |  |
| PCB-082                                 |  |                           | NotFnd       | <6.7             | 6.7         | U        |              | 33                                                        |  |
| PCB-111                                 |  |                           | NotFnd       | <3.6             | 3.6         | U        |              | 33                                                        |  |
| PCB-120                                 |  |                           | NotFnd       | <3.5             | 3.5         | U        |              | 33                                                        |  |
| PCB-108/124                             |  |                           | NotFnd       | <3.9             | 3.9         | U        |              | 33                                                        |  |
| PCB-107                                 |  |                           | NotFnd       | <3.7             | 3.7         | U        |              | 33                                                        |  |
| PCB-123                                 |  | 0.00003                   | NotFnd       | <4.2             | 4.2         | U        |              | 33                                                        |  |
| PCB-106                                 |  |                           | NotFnd       | <4.3             | 4.3         | U        |              | 33                                                        |  |
| PCB-118                                 |  | 0.00003                   | 23.84        | <4.0             | 4.0         | M,U      | 2.4          | 33                                                        |  |
| PCB-122                                 |  |                           | NotFnd       | <5.2             | 5.2         | U        |              | 33                                                        |  |
| PCB-114                                 |  | 0.00003                   | NotFnd       | <4.4             | 4.4         | U        |              | 33                                                        |  |
| PCB-105                                 |  | 0.00003                   | NotFnd       | <4.1             | 4.1         | U        |              | 33                                                        |  |
| PCB-127                                 |  |                           | NotFnd       | <4.1             | 4.1         | U        |              | 33                                                        |  |
| PCB-126                                 |  | 0.1                       | NotFnd       | <4.9             | 4.9         | U        |              | 33                                                        |  |
| PCB-155                                 |  |                           | NotFnd       | <1.2             | 1.2         | U        |              | 33                                                        |  |
| PCB-152                                 |  |                           | NotFnd       | <2.4             | 2.4         | U        |              | 33                                                        |  |
| PCB-150                                 |  |                           | NotFnd       | <1.9             | 1.9         | U        |              | 33                                                        |  |
| PCB-136                                 |  |                           | NotFnd       | <2.2             | 2.2         | U        |              | 33                                                        |  |
| PCB-145                                 |  |                           | NotFnd       | <2.1             | 2.1         | U        |              | 33                                                        |  |
| PCB-148                                 |  |                           | NotFnd       | <2.9             | 2.9         | U        |              | 33                                                        |  |
| PCB-135/151                             |  |                           | NotFnd       | <3.4             | 3.4         | U        |              | 33                                                        |  |
| PCB-154                                 |  |                           | NotFnd       | <1.9             | 1.9         | U        |              | 33                                                        |  |
| PCB-144                                 |  |                           | NotFnd       | <3.0             | 3.0         | U        |              | 33                                                        |  |
| PCB-147/149                             |  |                           | 23.26        | <2.8             | 2.8         | U        | 1.6          | 33                                                        |  |
| PCB-134/143                             |  |                           | NotFnd       | <3.6             | 3.6         | U        |              | 33                                                        |  |
| PCB-139/140                             |  |                           | NotFnd       | <2.8             | 2.8         | U        |              | 33                                                        |  |
| PCB-131                                 |  |                           | NotFnd       | <3.6             | 3.6         | U        |              | 33                                                        |  |
| PCB-142                                 |  |                           | NotFnd       | <3.6             | 3.6         | U        |              | 33                                                        |  |
| PCB-132                                 |  |                           | NotFnd       | <3.4             | 3.4         | U        |              | 33                                                        |  |
| PCB-133                                 |  |                           | NotFnd       | <3.2             | 3.2         | U        |              | 33                                                        |  |
| PCB-165                                 |  |                           | NotFnd       | <2.3             | 2.3         | U        |              | 33                                                        |  |
| PCB-146                                 |  |                           | NotFnd       | <2.7             | 2.7         | U        |              | 33                                                        |  |
| PCB-161                                 |  |                           | NotFnd       | <2.0             | 2.0         | U        |              | 33                                                        |  |
| PCB-153/168                             |  |                           | NotFnd       | <2.2             | 2.2         | U        |              | 33                                                        |  |
| PCB-141                                 |  |                           | NotFnd       | <2.8             | 2.8         | U        |              | 33                                                        |  |
| PCB-130                                 |  |                           | NotFnd       | <3.4             | 3.4         | U        |              | 33                                                        |  |
| PCB-137/164                             |  |                           | 25.23        | <2.5             | 2.5         | U        | 0.94         | 33                                                        |  |
| PCB-129/138/163                         |  |                           | 25.46        | <2.8             | 2.8         | U        | 2.0          | 33                                                        |  |
| PCB-160                                 |  |                           | NotFnd       | <2.3             | 2.3         | U        |              | 33                                                        |  |
| PCB-158                                 |  |                           | NotFnd       | <1.8             | 1.8         | U        |              | 33                                                        |  |
| PCB-128/166                             |  |                           | NotFnd       | <2.4             | 2.4         | U        |              | 33                                                        |  |
| PCB-159                                 |  |                           | NotFnd       | <2.1             | 2.1         | U        |              | 33                                                        |  |
| PCB-162                                 |  |                           | NotFnd       | <2.2             | 2.2         | U        |              | 33                                                        |  |
| PCB-167                                 |  | 0.00003                   | NotFnd       | <1.9             | 1.9         | U        |              | 33                                                        |  |
| PCB-156/157                             |  | 0.00003                   | NotFnd       | <3.0             | 3.0         | U        |              | 67                                                        |  |
| PCB-169                                 |  | 0.03                      | NotFnd       | <2.3             | 2.3         | U        |              | 33                                                        |  |
| PCB-188                                 |  |                           | NotFnd       | <0.89            | 0.89        | U        |              | 33                                                        |  |
| PCB-179                                 |  |                           | NotFnd       | <1.1             | 1.1         | U        |              | 33                                                        |  |
| PCB-184                                 |  |                           | NotFnd       | <1.0             | 1.0         | U        |              | 33                                                        |  |
| PCB-176                                 |  |                           | NotFnd       | <1.1             | 1.1         | U        |              | 33                                                        |  |
| PCB-186                                 |  |                           | NotFnd       | <1.2             | 1.2         | U        |              | 33                                                        |  |
| PCB-178                                 |  |                           | NotFnd       | <1.5             | 1.5         | U        |              | 33                                                        |  |
| PCB-175                                 |  |                           | NotFnd       | <1.5             | 1.5         | U        |              | 33                                                        |  |
| PCB-187                                 |  |                           | 26.12        | 1.46             | 1.4         | J        |              | 33                                                        |  |
| PCB-182                                 |  |                           | NotFnd       | <1.3             | 1.3         | U        |              | 33                                                        |  |
| PCB-183                                 |  |                           | NotFnd       | <1.4             | 1.4         | U        |              | 33                                                        |  |
| PCB-185                                 |  |                           | NotFnd       | <1.6             | 1.6         | U        |              | 33                                                        |  |
| PCB-174                                 |  |                           | NotFnd       | <1.4             | 1.4         | U        |              | 33                                                        |  |
| PCB-177                                 |  |                           | 26.79        | <1.5             | 1.5         | U        | 0.72         | 33                                                        |  |
| PCB-181                                 |  |                           | NotFnd       | <1.6             | 1.6         | U        |              | 33                                                        |  |
| PCB-171/173                             |  |                           | NotFnd       | <1.5             | 1.5         | U        |              | 33                                                        |  |
| PCB-172                                 |  |                           | NotFnd       | <1.5             | 1.5         | U        |              | 33                                                        |  |



| ALS Life Sciences                       |  |                           |              |               |                  |       |              |     |                                                           |
|-----------------------------------------|--|---------------------------|--------------|---------------|------------------|-------|--------------|-----|-----------------------------------------------------------|
| Laboratory Method Blank Analysis Report |  |                           |              |               |                  |       |              |     |                                                           |
| Sample Name                             |  | Method Blank              |              |               | Sampling Date    |       | n/a          |     | Approved:<br>S.Sarhaddi<br>--e-signature--<br>15-Aug-2024 |
| ALS Sample ID                           |  | WG3789754-1               |              |               | Extraction Date  |       | 6-Jul-24     |     |                                                           |
| Analysis Method                         |  | EPA 1668C                 |              |               | Sample Size      |       | 3 g          |     |                                                           |
| Analysis Type                           |  | Blank                     |              |               | Percent Moisture |       | n/a          |     |                                                           |
| Sample Matrix                           |  | QC                        |              |               | Split Ratio      |       | 4            |     |                                                           |
| Run Information                         |  | Run 1                     |              |               |                  |       |              |     |                                                           |
| Filename                                |  | 6-240714A05               |              |               |                  |       |              |     |                                                           |
| Run Date                                |  | 14-Jul-24 10:15           |              |               |                  |       |              |     |                                                           |
| Final Volume                            |  | 25 ul                     |              |               |                  |       |              |     |                                                           |
| Dilution Factor                         |  | 1                         |              |               |                  |       |              |     |                                                           |
| Analysis Units                          |  | pg/g                      |              |               |                  |       |              |     |                                                           |
| Instrument - Column                     |  | HRMS-6 SPBOCTYL-281311-07 |              |               |                  |       |              |     |                                                           |
|                                         |  |                           |              |               |                  |       |              |     |                                                           |
| Target Analytes                         |  | TEF<br>(WHO 2005)         | Ret.<br>Time | Conc.<br>pg/g | EDL<br>pg/g      | Flags | EMPC<br>pg/g | LQL |                                                           |
| PCB-192                                 |  | 0.00003                   | NotFnd       | <1.3          | 1.3              | U     |              | 33  |                                                           |
| PCB-180/193                             |  |                           | 28.23        | <1.3          | 1.3              | U     | 0.97         | 33  |                                                           |
| PCB-191                                 |  |                           | NotFnd       | <1.1          | 1.1              | U     |              | 33  |                                                           |
| PCB-170                                 |  |                           | 28.93        | <1.5          | 1.5              | U     | 0.63         | 33  |                                                           |
| PCB-190                                 |  |                           | NotFnd       | <0.96         | 0.96             | U     |              | 33  |                                                           |
| PCB-189                                 |  |                           | NotFnd       | <1.2          | 1.2              | U     |              | 33  |                                                           |
| PCB-202                                 |  |                           | NotFnd       | <0.91         | 0.91             | M,U   |              | 33  |                                                           |
| PCB-201                                 |  |                           | NotFnd       | <0.97         | 0.97             | U     |              | 33  |                                                           |
| PCB-204                                 |  |                           | NotFnd       | <0.96         | 0.96             | U     |              | 33  |                                                           |
| PCB-197                                 |  |                           | NotFnd       | <1.1          | 1.1              | U     |              | 33  |                                                           |
| PCB-200                                 |  |                           | NotFnd       | <1.1          | 1.1              | U     |              | 33  |                                                           |
| PCB-198/199                             |  |                           | NotFnd       | <1.4          | 1.4              | U     |              | 33  |                                                           |
| PCB-196                                 |  |                           | NotFnd       | <1.4          | 1.4              | U     |              | 33  |                                                           |
| PCB-203                                 |  |                           | NotFnd       | <1.3          | 1.3              | U     |              | 33  |                                                           |
| PCB-195                                 |  |                           | NotFnd       | <1.6          | 1.6              | U     |              | 33  |                                                           |
| PCB-194                                 |  |                           | NotFnd       | <1.5          | 1.5              | U     |              | 33  |                                                           |
| PCB-205                                 |  |                           | NotFnd       | <1.4          | 1.4              | U     |              | 33  |                                                           |
| PCB-208                                 |  |                           | NotFnd       | <2.0          | 2.0              | U     |              | 33  |                                                           |
| PCB-207                                 |  |                           | NotFnd       | <2.1          | 2.1              | U     |              | 33  |                                                           |
| PCB-206                                 |  |                           | NotFnd       | <3.6          | 3.6              | U     |              | 33  |                                                           |
| PCB-209                                 |  | NotFnd                    | <0.91        | 0.91          | U                |       | 33           |     |                                                           |
|                                         |  |                           |              |               |                  |       |              |     |                                                           |
| Extraction Standards                    |  | pg                        | Time         | % Rec         | Limits           |       |              |     |                                                           |
| 13C12-PCB-001                           |  | 4000                      | 9.39         | 39            | 5-145            |       |              |     |                                                           |
| 13C12-PCB-003                           |  | 4000                      | 10.96        | 38            | 5-145            |       |              |     |                                                           |
| 13C12-PCB-004                           |  | 4000                      | 11.11        | 42            | 5-145            |       |              |     |                                                           |
| 13C12-PCB-015                           |  | 4000                      | 14.85        | 53            | 5-145            |       |              |     |                                                           |
| 13C12-PCB-019                           |  | 4000                      | 13.15        | 52            | 5-145            |       |              |     |                                                           |
| 13C12-PCB-037                           |  | 4000                      | 18.83        | 56            | 5-145            |       |              |     |                                                           |
| 13C12-PCB-054                           |  | 4000                      | 15.04        | 55            | 5-145            |       |              |     |                                                           |
| 13C12-PCB-081                           |  | 4000                      | 22.40        | 65            | 10-145           |       |              |     |                                                           |
| 13C12-PCB-077                           |  | 4000                      | 22.70        | 64            | 10-145           |       |              |     |                                                           |
| 13C12-PCB-104                           |  | 4000                      | 18.08        | 60            | 10-145           |       |              |     |                                                           |
| 13C12-PCB-123                           |  | 4000                      | 23.66        | 70            | 10-145           |       |              |     |                                                           |
| 13C12-PCB-118                           |  | 4000                      | 23.83        | 71            | 10-145           |       |              |     |                                                           |
| 13C12-PCB-114                           |  | 4000                      | 24.15        | 66            | 10-145           |       |              |     |                                                           |
| 13C12-PCB-105                           |  | 4000                      | 24.51        | 71            | 10-145           |       |              |     |                                                           |
| 13C12-PCB-126                           |  | 4000                      | 26.09        | 66            | 10-145           |       |              |     |                                                           |
| 13C12-PCB-155                           |  | 4000                      | 21.06        | 70            | 10-145           |       |              |     |                                                           |
| 13C12-PCB-167                           |  | 4000                      | 26.96        | 70            | 10-145           |       |              |     |                                                           |
| 13C12-PCB-156/157                       |  | 8000                      | 27.60        | 67            | 10-145           |       |              |     |                                                           |
| 13C12-PCB-169                           |  | 4000                      | 29.26        | 64            | 10-145           |       |              |     |                                                           |
| 13C12-PCB-188                           |  | 4000                      | 24.06        | 67            | 10-145           |       |              |     |                                                           |
| 13C12-PCB-189                           |  | 4000                      | 30.53        | 69            | 10-145           |       |              |     |                                                           |
| 13C12-PCB-202                           |  | 4000                      | 26.84        | 70            | 10-145           |       |              |     |                                                           |
| 13C12-PCB-205                           |  | 4000                      | 31.98        | 76            | 10-145           |       |              |     |                                                           |
| 13C12-PCB-208                           |  | 4000                      | 30.25        | 78            | 10-145           |       |              |     |                                                           |
| 13C12-PCB-206                           |  | 4000                      | 33.09        | 77            | 10-145           |       |              |     |                                                           |
| 13C12-PCB-209                           |  | 4000                      | 34.28        | 79            | 10-145           |       |              |     |                                                           |
|                                         |  |                           |              |               |                  |       |              |     |                                                           |
| Cleanup Standards                       |  |                           |              |               |                  |       |              |     |                                                           |
| 13C12-PCB-028                           |  | 4000                      | 16.55        | 67            | 5-145            |       |              |     |                                                           |
| 13C12-PCB-111                           |  | 4000                      | 22.59        | 75            | 10-145           |       |              |     |                                                           |
| 13C12-PCB-178                           |  | 4000                      | 25.63        | 77            | 10-145           |       |              |     |                                                           |

| ALS Life Sciences                       |  |                                                                                                                                                   |              |                  |             |          |                                 |                                                                         |  |
|-----------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------------|-------------|----------|---------------------------------|-------------------------------------------------------------------------|--|
| Laboratory Method Blank Analysis Report |  |                                                                                                                                                   |              |                  |             |          |                                 |                                                                         |  |
| Sample Name                             |  | Method Blank                                                                                                                                      |              | Sampling Date    |             | n/a      |                                 | <div>Approved:<br/>S.Sarhaddi<br/>--e-signature--<br/>15-Aug-2024</div> |  |
| ALS Sample ID                           |  | WG3789754-1                                                                                                                                       |              | Extraction Date  |             | 6-Jul-24 |                                 |                                                                         |  |
| Analysis Method                         |  | EPA 1668C                                                                                                                                         |              | Sample Size      |             | 3g       |                                 |                                                                         |  |
| Analysis Type                           |  | Blank                                                                                                                                             |              | Percent Moisture |             | n/a      |                                 |                                                                         |  |
| Sample Matrix                           |  | QC                                                                                                                                                |              | Split Ratio      |             | 4        |                                 |                                                                         |  |
| Run Information                         |  | Run 1                                                                                                                                             |              |                  |             |          |                                 |                                                                         |  |
| Filename                                |  | 6-240714A05                                                                                                                                       |              |                  |             |          |                                 |                                                                         |  |
| Run Date                                |  | 14-Jul-24 10:15                                                                                                                                   |              |                  |             |          |                                 |                                                                         |  |
| Final Volume                            |  | 25ul                                                                                                                                              |              |                  |             |          |                                 |                                                                         |  |
| Dilution Factor                         |  | 1                                                                                                                                                 |              |                  |             |          |                                 |                                                                         |  |
| Analysis Units                          |  | pg/g                                                                                                                                              |              |                  |             |          |                                 |                                                                         |  |
| Instrument - Column                     |  | HRMS-6 SPBOCTYL-281311-07                                                                                                                         |              |                  |             |          |                                 |                                                                         |  |
|                                         |  |                                                                                                                                                   |              |                  |             |          |                                 |                                                                         |  |
| Target Analytes                         |  | TEF<br>(WHO 2005)                                                                                                                                 | Ret.<br>Time | Conc.<br>pg/g    | EDL<br>pg/g | Flags    | EMPC<br>pg/g                    | LQL                                                                     |  |
| Homologue Group Totals                  |  |                                                                                                                                                   |              |                  |             |          |                                 |                                                                         |  |
| Total MonoCB                            |  |                                                                                                                                                   |              | <1.7             | 1.7         | U        |                                 | 130                                                                     |  |
| Total DiCB                              |  |                                                                                                                                                   |              | 27.0             | 8.2         | J        |                                 | 270                                                                     |  |
| Total TriCB                             |  |                                                                                                                                                   |              | <3.3             | 3.3         | U        |                                 | 270                                                                     |  |
| Total TetraCB                           |  |                                                                                                                                                   |              | 8.70             | 1.2         | J        |                                 | 530                                                                     |  |
| Total PentaCB                           |  |                                                                                                                                                   |              | <3.1             | 3.1         | U        |                                 | 530                                                                     |  |
| Total HexaCB                            |  |                                                                                                                                                   |              | <1.2             | 1.2         | U        |                                 | 530                                                                     |  |
| Total HeptaCB                           |  |                                                                                                                                                   |              | 1.46             | 0.89        | J        |                                 | 270                                                                     |  |
| Total OctaCB                            |  |                                                                                                                                                   |              | <0.91            | 0.91        | U        |                                 | 270                                                                     |  |
| Total NonaCB                            |  |                                                                                                                                                   |              | <2.0             | 2.0         | U        |                                 | 130                                                                     |  |
| DecaCB                                  |  |                                                                                                                                                   |              | <0.91            | 0.91        | U        |                                 | 130                                                                     |  |
| Total PCB                               |  |                                                                                                                                                   |              | 37.2             |             | J        |                                 | 1100                                                                    |  |
| Toxic Equivalency - (WHO 2005)          |  |                                                                                                                                                   |              |                  |             |          |                                 |                                                                         |  |
| Lower Bound PCB TEQ                     |  |                                                                                                                                                   |              | 0.00             |             |          |                                 |                                                                         |  |
| Mid Point PCB TEQ                       |  |                                                                                                                                                   |              | 0.280            |             |          |                                 |                                                                         |  |
| Upper Bound PCB TEQ                     |  |                                                                                                                                                   |              | 0.561            |             |          |                                 |                                                                         |  |
|                                         |  |                                                                                                                                                   |              |                  |             |          |                                 |                                                                         |  |
| EDL                                     |  | Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.                                   |              |                  |             |          |                                 |                                                                         |  |
| TEF                                     |  | Indicates the Toxic Equivalency Factor                                                                                                            |              |                  |             | TEQ      | Indicates the Toxic Equivalency |                                                                         |  |
| LQL                                     |  | Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.                                |              |                  |             |          |                                 |                                                                         |  |
| M                                       |  | Indicates that a peak has been manually integrated.                                                                                               |              |                  |             |          |                                 |                                                                         |  |
| U                                       |  | Indicates that this compound was not detected above the EDL.                                                                                      |              |                  |             |          |                                 |                                                                         |  |
| J                                       |  | Indicates that the analyte was positively identified. The associated numerical result is an estimate.                                             |              |                  |             |          |                                 |                                                                         |  |
| R                                       |  | Indicates that the ion abundance ratio for this analyte did not meet the control limit. The reported value represents an estimated concentration. |              |                  |             |          |                                 |                                                                         |  |
|                                         |  |                                                                                                                                                   |              |                  |             |          |                                 |                                                                         |  |
| EMPC                                    |  | Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure                          |              |                  |             |          |                                 |                                                                         |  |



| ALS Life Sciences                       |  |                           |              |                  |             |          |              |                                                           |  |
|-----------------------------------------|--|---------------------------|--------------|------------------|-------------|----------|--------------|-----------------------------------------------------------|--|
| Laboratory Method Blank Analysis Report |  |                           |              |                  |             |          |              |                                                           |  |
| Sample Name                             |  | Method Blank              |              | Sampling Date    |             | n/a      |              | Approved:<br>S.Sarhaddi<br>--e-signature--<br>15-Aug-2024 |  |
| ALS Sample ID                           |  | WG3789754-4               |              | Extraction Date  |             | 6-Jul-24 |              |                                                           |  |
| Analysis Method                         |  | EPA 1668C                 |              | Sample Size      |             | 3 g      |              |                                                           |  |
| Analysis Type                           |  | Blank                     |              | Percent Moisture |             | n/a      |              |                                                           |  |
| Sample Matrix                           |  | QC                        |              | Split Ratio      |             | 4        |              |                                                           |  |
| Run Information                         |  | Run 1                     |              |                  |             |          |              |                                                           |  |
| Filename                                |  | 6-240714A06               |              |                  |             |          |              |                                                           |  |
| Run Date                                |  | 14-Jul-24 11:01           |              |                  |             |          |              |                                                           |  |
| Final Volume                            |  | 25 ul                     |              |                  |             |          |              |                                                           |  |
| Dilution Factor                         |  | 1                         |              |                  |             |          |              |                                                           |  |
| Analysis Units                          |  | pg/g                      |              |                  |             |          |              |                                                           |  |
| Instrument - Column                     |  | HRMS-6 SPBOCTYL-281311-07 |              |                  |             |          |              |                                                           |  |
|                                         |  |                           |              |                  |             |          |              |                                                           |  |
| Target Analytes                         |  | TEF<br>(WHO 2005)         | Ret.<br>Time | Conc.<br>pg/g    | EDL<br>pg/g | Flags    | EMPC<br>pg/g | LQL                                                       |  |
| PCB-001                                 |  |                           | NotFnd       | <4.1             | 4.1         |          | U            | 33                                                        |  |
| PCB-002                                 |  |                           | NotFnd       | <4.5             | 4.5         |          | U            | 33                                                        |  |
| PCB-003                                 |  |                           | NotFnd       | <4.9             | 4.9         |          | U            | 33                                                        |  |
| PCB-004                                 |  |                           | NotFnd       | <34              | 34          |          | U            | 33                                                        |  |
| PCB-010                                 |  |                           | NotFnd       | <20              | 20          |          | U            | 33                                                        |  |
| PCB-009                                 |  |                           | NotFnd       | <22              | 22          |          | U            | 33                                                        |  |
| PCB-007                                 |  |                           | NotFnd       | <22              | 22          |          | U            | 33                                                        |  |
| PCB-006                                 |  |                           | NotFnd       | <21              | 21          |          | U            | 33                                                        |  |
| PCB-005                                 |  |                           | NotFnd       | <25              | 25          |          | U            | 33                                                        |  |
| PCB-008                                 |  |                           | NotFnd       | <19              | 19          |          | U            | 33                                                        |  |
| PCB-014                                 |  |                           | NotFnd       | <33              | 33          |          | U            | 33                                                        |  |
| PCB-011                                 |  |                           | NotFnd       | <33              | 33          |          | U            | 33                                                        |  |
| PCB-012/013                             |  |                           | NotFnd       | <32              | 32          |          | U            | 33                                                        |  |
| PCB-015                                 |  |                           | NotFnd       | <39              | 39          |          | U            | 33                                                        |  |
| PCB-019                                 |  |                           | NotFnd       | <14              | 14          |          | U            | 33                                                        |  |
| PCB-018/030                             |  |                           | NotFnd       | <5.2             | 5.2         |          | U            | 33                                                        |  |
| PCB-017                                 |  |                           | NotFnd       | <6.0             | 6.0         |          | U            | 33                                                        |  |
| PCB-027                                 |  |                           | NotFnd       | <4.6             | 4.6         |          | U            | 33                                                        |  |
| PCB-024                                 |  |                           | NotFnd       | <5.1             | 5.1         |          | U            | 33                                                        |  |
| PCB-016                                 |  |                           | NotFnd       | <6.7             | 6.7         |          | U            | 33                                                        |  |
| PCB-032                                 |  |                           | NotFnd       | <4.1             | 4.1         |          | U            | 33                                                        |  |
| PCB-034                                 |  |                           | NotFnd       | <6.9             | 6.9         |          | U            | 33                                                        |  |
| PCB-023                                 |  |                           | NotFnd       | <6.5             | 6.5         |          | U            | 33                                                        |  |
| PCB-026/029                             |  |                           | NotFnd       | <6.3             | 6.3         |          | U            | 33                                                        |  |
| PCB-025                                 |  |                           | NotFnd       | <6.2             | 6.2         |          | U            | 33                                                        |  |
| PCB-031                                 |  |                           | NotFnd       | <6.0             | 6.0         |          | U            | 33                                                        |  |
| PCB-020/028                             |  |                           | NotFnd       | <6.5             | 6.5         |          | U            | 33                                                        |  |
| PCB-021/033                             |  |                           | NotFnd       | <6.4             | 6.4         |          | U            | 33                                                        |  |
| PCB-022                                 |  |                           | NotFnd       | <7.2             | 7.2         | M,U      |              | 33                                                        |  |
| PCB-036                                 |  |                           | NotFnd       | <6.0             | 6.0         |          | U            | 33                                                        |  |
| PCB-039                                 |  |                           | NotFnd       | <7.3             | 7.3         |          | U            | 33                                                        |  |
| PCB-038                                 |  |                           | NotFnd       | <6.9             | 6.9         |          | U            | 33                                                        |  |
| PCB-035                                 |  |                           | NotFnd       | <7.2             | 7.2         |          | U            | 33                                                        |  |
| PCB-037                                 |  |                           | NotFnd       | <5.6             | 5.6         |          | U            | 33                                                        |  |
| PCB-054                                 |  |                           | NotFnd       | <2.5             | 2.5         |          | U            | 33                                                        |  |
| PCB-050/053                             |  |                           | NotFnd       | <3.8             | 3.8         |          | U            | 33                                                        |  |
| PCB-045/051                             |  |                           | 16.71        | <4.0             | 4.0         | M,U      |              | 33                                                        |  |
| PCB-046                                 |  |                           | NotFnd       | <4.3             | 4.3         |          | U            | 33                                                        |  |
| PCB-052                                 |  |                           | 17.56        | 6.21             | 4.3         | M,J      |              | 33                                                        |  |
| PCB-073                                 |  |                           | NotFnd       | <2.7             | 2.7         |          | U            | 33                                                        |  |
| PCB-043                                 |  |                           | NotFnd       | <4.3             | 4.3         |          | U            | 33                                                        |  |
| PCB-049/069                             |  |                           | NotFnd       | <3.3             | 3.3         |          | U            | 33                                                        |  |
| PCB-048                                 |  |                           | NotFnd       | <3.9             | 3.9         |          | U            | 33                                                        |  |
| PCB-044/047/065                         |  |                           | 18.19        | 6.25             | 3.4         | J        |              | 33                                                        |  |
| PCB-059/062/075                         |  |                           | NotFnd       | <2.8             | 2.8         |          | U            | 33                                                        |  |
| PCB-042                                 |  |                           | NotFnd       | <4.4             | 4.4         |          | U            | 33                                                        |  |
| PCB-040/041/071                         |  |                           | NotFnd       | <4.0             | 4.0         |          | U            | 33                                                        |  |
| PCB-064                                 |  |                           | NotFnd       | <2.9             | 2.9         |          | U            | 33                                                        |  |
| PCB-072                                 |  |                           | NotFnd       | <2.4             | 2.4         |          | U            | 33                                                        |  |
| PCB-068                                 |  |                           | NotFnd       | <2.3             | 2.3         |          | U            | 33                                                        |  |
| PCB-057                                 |  |                           | NotFnd       | <2.5             | 2.5         |          | U            | 33                                                        |  |
| PCB-058                                 |  |                           | NotFnd       | <2.4             | 2.4         |          | U            | 33                                                        |  |
| PCB-067                                 |  |                           | NotFnd       | <2.1             | 2.1         |          | U            | 33                                                        |  |
| PCB-063                                 |  |                           | NotFnd       | <2.3             | 2.3         |          | U            | 33                                                        |  |
| PCB-061/070/074/076                     |  |                           | 20.23        | <2.3             | 2.3         | M,U      | 2.1          | 33                                                        |  |
| PCB-066                                 |  |                           | NotFnd       | <2.3             | 2.3         |          | U            | 33                                                        |  |
| PCB-055                                 |  |                           | NotFnd       | <2.6             | 2.6         |          | U            | 33                                                        |  |
| PCB-056                                 |  |                           | NotFnd       | <2.3             | 2.3         |          | U            | 33                                                        |  |
| PCB-060                                 |  |                           | NotFnd       | <2.5             | 2.5         |          | U            | 33                                                        |  |
| PCB-080                                 |  |                           | NotFnd       | <2.0             | 2.0         |          | U            | 33                                                        |  |
| PCB-079                                 |  |                           | NotFnd       | <2.1             | 2.1         |          | U            | 33                                                        |  |
| PCB-078                                 |  |                           | NotFnd       | <2.7             | 2.7         |          | U            | 33                                                        |  |
| PCB-081                                 |  | 0.0003                    | NotFnd       | <2.3             | 2.3         |          | U            | 33                                                        |  |
| PCB-077                                 |  | 0.0001                    | NotFnd       | <2.6             | 2.6         |          | U            | 33                                                        |  |
| PCB-104                                 |  |                           | NotFnd       | <4.2             | 4.2         |          | U            | 33                                                        |  |
| PCB-096                                 |  |                           | NotFnd       | <4.3             | 4.3         |          | U            | 33                                                        |  |
| PCB-103                                 |  |                           | NotFnd       | <5.2             | 5.2         |          | U            | 33                                                        |  |
| PCB-094                                 |  |                           | NotFnd       | <5.7             | 5.7         |          | U            | 33                                                        |  |
| PCB-095                                 |  |                           | NotFnd       | <6.6             | 6.6         |          | U            | 33                                                        |  |
| PCB-093/098/100/102                     |  |                           | NotFnd       | <4.9             | 4.9         |          | U            | 33                                                        |  |

| ALS Life Sciences                       |  |                           |              |                  |             |          |              |                                                           |  |
|-----------------------------------------|--|---------------------------|--------------|------------------|-------------|----------|--------------|-----------------------------------------------------------|--|
| Laboratory Method Blank Analysis Report |  |                           |              |                  |             |          |              |                                                           |  |
| Sample Name                             |  | Method Blank              |              | Sampling Date    |             | n/a      |              | Approved:<br>S.Sarhaddi<br>--e-signature--<br>15-Aug-2024 |  |
| ALS Sample ID                           |  | WG3789754-4               |              | Extraction Date  |             | 6-Jul-24 |              |                                                           |  |
| Analysis Method                         |  | EPA 1668C                 |              | Sample Size      |             | 3 g      |              |                                                           |  |
| Analysis Type                           |  | Blank                     |              | Percent Moisture |             | n/a      |              |                                                           |  |
| Sample Matrix                           |  | QC                        |              | Split Ratio      |             | 4        |              |                                                           |  |
| Run Information                         |  | Run 1                     |              |                  |             |          |              |                                                           |  |
| Filename                                |  | 6-240714A06               |              |                  |             |          |              |                                                           |  |
| Run Date                                |  | 14-Jul-24 11:01           |              |                  |             |          |              |                                                           |  |
| Final Volume                            |  | 25 ul                     |              |                  |             |          |              |                                                           |  |
| Dilution Factor                         |  | 1                         |              |                  |             |          |              |                                                           |  |
| Analysis Units                          |  | pg/g                      |              |                  |             |          |              |                                                           |  |
| Instrument - Column                     |  | HRMS-6 SPBOCTYL-281311-07 |              |                  |             |          |              |                                                           |  |
|                                         |  |                           |              |                  |             |          |              |                                                           |  |
| Target Analytes                         |  | TEF<br>(WHO 2005)         | Ret.<br>Time | Conc.<br>pg/g    | EDL<br>pg/g | Flags    | EMPC<br>pg/g | LQL                                                       |  |
| PCB-088/091                             |  |                           | NotFnd       | <5.3             | 5.3         | U        |              | 33                                                        |  |
| PCB-084                                 |  |                           | NotFnd       | <5.6             | 5.6         | U        |              | 33                                                        |  |
| PCB-089                                 |  |                           | NotFnd       | <6.7             | 6.7         | U        |              | 33                                                        |  |
| PCB-121                                 |  |                           | NotFnd       | <3.8             | 3.8         | U        |              | 33                                                        |  |
| PCB-092                                 |  |                           | NotFnd       | <6.0             | 6.0         | U        |              | 33                                                        |  |
| PCB-090/101/113                         |  |                           | NotFnd       | <4.3             | 4.3         | U        |              | 33                                                        |  |
| PCB-083/099                             |  |                           | NotFnd       | <5.7             | 5.7         | U        |              | 33                                                        |  |
| PCB-112                                 |  |                           | NotFnd       | <3.6             | 3.6         | U        |              | 33                                                        |  |
| PCB-086/087/097/109/119/125             |  |                           | 21.83        | <4.2             | 4.2         | U        | 0.54         | 33                                                        |  |
| PCB-085/110/115/116/117                 |  |                           | NotFnd       | <4.0             | 4.0         | U        |              | 33                                                        |  |
| PCB-082                                 |  |                           | NotFnd       | <6.9             | 6.9         | U        |              | 33                                                        |  |
| PCB-111                                 |  |                           | 22.60        | <3.7             | 3.7         | U        | 1.1          | 33                                                        |  |
| PCB-120                                 |  |                           | NotFnd       | <3.6             | 3.6         | U        |              | 33                                                        |  |
| PCB-108/124                             |  |                           | NotFnd       | <4.1             | 4.1         | U        |              | 33                                                        |  |
| PCB-107                                 |  |                           | NotFnd       | <3.9             | 3.9         | U        |              | 33                                                        |  |
| PCB-123                                 |  | 0.00003                   | NotFnd       | <4.2             | 4.2         | U        |              | 33                                                        |  |
| PCB-106                                 |  |                           | NotFnd       | <4.4             | 4.4         | U        |              | 33                                                        |  |
| PCB-118                                 |  | 0.00003                   | NotFnd       | <3.8             | 3.8         | U        |              | 33                                                        |  |
| PCB-122                                 |  |                           | NotFnd       | <5.4             | 5.4         | U        |              | 33                                                        |  |
| PCB-114                                 |  | 0.00003                   | NotFnd       | <3.9             | 3.9         | U        |              | 33                                                        |  |
| PCB-105                                 |  | 0.00003                   | NotFnd       | <3.8             | 3.8         | U        |              | 33                                                        |  |
| PCB-127                                 |  |                           | NotFnd       | <4.3             | 4.3         | U        |              | 33                                                        |  |
| PCB-126                                 |  | 0.1                       | NotFnd       | <4.6             | 4.6         | U        |              | 33                                                        |  |
| PCB-155                                 |  |                           | NotFnd       | <1.5             | 1.5         | U        |              | 33                                                        |  |
| PCB-152                                 |  |                           | NotFnd       | <2.4             | 2.4         | U        |              | 33                                                        |  |
| PCB-150                                 |  |                           | NotFnd       | <1.8             | 1.8         | U        |              | 33                                                        |  |
| PCB-136                                 |  |                           | NotFnd       | <2.2             | 2.2         | U        |              | 33                                                        |  |
| PCB-145                                 |  |                           | NotFnd       | <2.1             | 2.1         | U        |              | 33                                                        |  |
| PCB-148                                 |  |                           | NotFnd       | <2.8             | 2.8         | U        |              | 33                                                        |  |
| PCB-135/151                             |  |                           | 22.82        | <3.3             | 3.3         | U        | 0.96         | 33                                                        |  |
| PCB-154                                 |  |                           | NotFnd       | <1.8             | 1.8         | U        |              | 33                                                        |  |
| PCB-144                                 |  |                           | NotFnd       | <2.9             | 2.9         | U        |              | 33                                                        |  |
| PCB-147/149                             |  |                           | NotFnd       | <2.2             | 2.2         | U        |              | 33                                                        |  |
| PCB-134/143                             |  |                           | NotFnd       | <2.8             | 2.8         | U        |              | 33                                                        |  |
| PCB-139/140                             |  |                           | NotFnd       | <2.2             | 2.2         | U        |              | 33                                                        |  |
| PCB-131                                 |  |                           | NotFnd       | <2.8             | 2.8         | U        |              | 33                                                        |  |
| PCB-142                                 |  |                           | NotFnd       | <2.8             | 2.8         | U        |              | 33                                                        |  |
| PCB-132                                 |  |                           | 23.98        | <2.6             | 2.6         | U        | 0.70         | 33                                                        |  |
| PCB-133                                 |  |                           | NotFnd       | <2.5             | 2.5         | U        |              | 33                                                        |  |
| PCB-165                                 |  |                           | NotFnd       | <1.8             | 1.8         | U        |              | 33                                                        |  |
| PCB-146                                 |  |                           | NotFnd       | <2.1             | 2.1         | U        |              | 33                                                        |  |
| PCB-161                                 |  |                           | NotFnd       | <1.6             | 1.6         | U        |              | 33                                                        |  |
| PCB-153/168                             |  |                           | 24.81        | 1.87             | 1.7         | M,J      |              | 33                                                        |  |
| PCB-141                                 |  |                           | NotFnd       | <2.2             | 2.2         | U        |              | 33                                                        |  |
| PCB-130                                 |  |                           | NotFnd       | <2.7             | 2.7         | U        |              | 33                                                        |  |
| PCB-137/164                             |  |                           | NotFnd       | <2.0             | 2.0         | U        |              | 33                                                        |  |
| PCB-129/138/163                         |  |                           | NotFnd       | <2.2             | 2.2         | U        |              | 33                                                        |  |
| PCB-160                                 |  |                           | NotFnd       | <1.8             | 1.8         | U        |              | 33                                                        |  |
| PCB-158                                 |  |                           | NotFnd       | <1.4             | 1.4         | U        |              | 33                                                        |  |
| PCB-128/166                             |  |                           | NotFnd       | <1.9             | 1.9         | U        |              | 33                                                        |  |
| PCB-159                                 |  |                           | NotFnd       | <1.6             | 1.6         | U        |              | 33                                                        |  |
| PCB-162                                 |  |                           | NotFnd       | <1.7             | 1.7         | U        |              | 33                                                        |  |
| PCB-167                                 |  | 0.00003                   | NotFnd       | <1.5             | 1.5         | U        |              | 33                                                        |  |
| PCB-156/157                             |  | 0.00003                   | NotFnd       | <2.1             | 2.1         | M,U      |              | 67                                                        |  |
| PCB-169                                 |  | 0.03                      | NotFnd       | <1.6             | 1.6         | U        |              | 33                                                        |  |
| PCB-188                                 |  |                           | NotFnd       | <1.0             | 1.0         | U        |              | 33                                                        |  |
| PCB-179                                 |  |                           | NotFnd       | <1.2             | 1.2         | U        |              | 33                                                        |  |
| PCB-184                                 |  |                           | 24.55        | <1.1             | 1.1         | M,U      |              | 33                                                        |  |
| PCB-176                                 |  |                           | NotFnd       | <1.2             | 1.2         | U        |              | 33                                                        |  |
| PCB-186                                 |  |                           | NotFnd       | <1.3             | 1.3         | U        |              | 33                                                        |  |
| PCB-178                                 |  |                           | NotFnd       | <1.8             | 1.8         | U        |              | 33                                                        |  |
| PCB-175                                 |  |                           | NotFnd       | <1.7             | 1.7         | U        |              | 33                                                        |  |
| PCB-187                                 |  |                           | 26.10        | <1.6             | 1.6         | U        | 0.93         | 33                                                        |  |
| PCB-182                                 |  |                           | NotFnd       | <1.5             | 1.5         | U        |              | 33                                                        |  |
| PCB-183                                 |  |                           | 26.44        | <1.5             | 1.5         | M,U      | 1.2          | 33                                                        |  |
| PCB-185                                 |  |                           | NotFnd       | <1.8             | 1.8         | U        |              | 33                                                        |  |
| PCB-174                                 |  |                           | NotFnd       | <1.6             | 1.6         | U        |              | 33                                                        |  |
| PCB-177                                 |  |                           | NotFnd       | <1.7             | 1.7         | U        |              | 33                                                        |  |
| PCB-181                                 |  |                           | NotFnd       | <1.8             | 1.8         | U        |              | 33                                                        |  |
| PCB-171/173                             |  |                           | NotFnd       | <1.8             | 1.8         | U        |              | 33                                                        |  |
| PCB-172                                 |  |                           | NotFnd       | <1.7             | 1.7         | U        |              | 33                                                        |  |



| ALS Life Sciences                       |  |                           |              |                  |             |          |              |                                                           |  |
|-----------------------------------------|--|---------------------------|--------------|------------------|-------------|----------|--------------|-----------------------------------------------------------|--|
| Laboratory Method Blank Analysis Report |  |                           |              |                  |             |          |              |                                                           |  |
| Sample Name                             |  | Method Blank              |              | Sampling Date    |             | n/a      |              | Approved:<br>S.Sarhaddi<br>--e-signature--<br>15-Aug-2024 |  |
| ALS Sample ID                           |  | WG3789754-4               |              | Extraction Date  |             | 6-Jul-24 |              |                                                           |  |
| Analysis Method                         |  | EPA 1668C                 |              | Sample Size      |             | 3 g      |              |                                                           |  |
| Analysis Type                           |  | Blank                     |              | Percent Moisture |             | n/a      |              |                                                           |  |
| Sample Matrix                           |  | QC                        |              | Split Ratio      |             | 4        |              |                                                           |  |
| Run Information                         |  |                           |              | Run 1            |             |          |              |                                                           |  |
| Filename                                |  | 6-240714A06               |              |                  |             |          |              |                                                           |  |
| Run Date                                |  | 14-Jul-24 11:01           |              |                  |             |          |              |                                                           |  |
| Final Volume                            |  | 25 ul                     |              |                  |             |          |              |                                                           |  |
| Dilution Factor                         |  | 1                         |              |                  |             |          |              |                                                           |  |
| Analysis Units                          |  | pg/g                      |              |                  |             |          |              |                                                           |  |
| Instrument - Column                     |  | HRMS-6 SPBOCTYL-281311-07 |              |                  |             |          |              |                                                           |  |
|                                         |  |                           |              |                  |             |          |              |                                                           |  |
| Target Analytes                         |  | TEF<br>(WHO 2005)         | Ret.<br>Time | Conc.<br>pg/g    | EDL<br>pg/g | Flags    | EMPC<br>pg/g | LQL                                                       |  |
| PCB-192                                 |  | 0.00003                   | NotFnd       | <1.4             | 1.4         | U        |              | 33                                                        |  |
| PCB-180/193                             |  |                           | 28.27        | <1.4             | 1.4         | M,U      | 1.1          | 33                                                        |  |
| PCB-191                                 |  |                           | NotFnd       | <1.2             | 1.2         | U        |              | 33                                                        |  |
| PCB-170                                 |  |                           | NotFnd       | <1.8             | 1.8         | U        |              | 33                                                        |  |
| PCB-190                                 |  |                           | NotFnd       | <1.1             | 1.1         | U        |              | 33                                                        |  |
| PCB-189                                 |  |                           | NotFnd       | <1.1             | 1.1         | U        |              | 33                                                        |  |
| PCB-202                                 |  |                           | NotFnd       | <0.97            | 0.97        | U        |              | 33                                                        |  |
| PCB-201                                 |  |                           | NotFnd       | <1.1             | 1.1         | U        |              | 33                                                        |  |
| PCB-204                                 |  |                           | NotFnd       | <1.0             | 1.0         | U        |              | 33                                                        |  |
| PCB-197                                 |  |                           | NotFnd       | <1.2             | 1.2         | U        |              | 33                                                        |  |
| PCB-200                                 |  |                           | NotFnd       | <1.2             | 1.2         | U        |              | 33                                                        |  |
| PCB-198/199                             |  |                           | NotFnd       | <1.6             | 1.6         | U        |              | 33                                                        |  |
| PCB-196                                 |  |                           | NotFnd       | <1.6             | 1.6         | U        |              | 33                                                        |  |
| PCB-203                                 |  |                           | NotFnd       | <1.5             | 1.5         | U        |              | 33                                                        |  |
| PCB-195                                 |  |                           | NotFnd       | <1.4             | 1.4         | U        |              | 33                                                        |  |
| PCB-194                                 |  |                           | 31.73        | 2.32             | 1.3         | J        |              | 33                                                        |  |
| PCB-205                                 |  |                           | NotFnd       | <1.3             | 1.3         | U        |              | 33                                                        |  |
| PCB-208                                 |  |                           | NotFnd       | <2.1             | 2.1         | U        |              | 33                                                        |  |
| PCB-207                                 |  |                           | NotFnd       | <2.2             | 2.2         | U        |              | 33                                                        |  |
| PCB-206                                 |  |                           | NotFnd       | <3.8             | 3.8         | U        |              | 33                                                        |  |
| PCB-209                                 |  | NotFnd                    | <0.71        | 0.71             | U           |          | 33           |                                                           |  |
|                                         |  |                           |              |                  |             |          |              |                                                           |  |
| Extraction Standards                    |  | pg                        | Time         | % Rec            | Limits      |          |              |                                                           |  |
| 13C12-PCB-001                           |  | 4000                      | 9.40         | 16               | 5-145       |          |              |                                                           |  |
| 13C12-PCB-003                           |  | 4000                      | 10.99        | 20               | 5-145       |          |              |                                                           |  |
| 13C12-PCB-004                           |  | 4000                      | 11.14        | 21               | 5-145       |          |              |                                                           |  |
| 13C12-PCB-015                           |  | 4000                      | 14.92        | 24               | 5-145       |          |              |                                                           |  |
| 13C12-PCB-019                           |  | 4000                      | 13.18        | 21               | 5-145 R     |          |              |                                                           |  |
| 13C12-PCB-037                           |  | 4000                      | 18.88        | 36               | 5-145       |          |              |                                                           |  |
| 13C12-PCB-054                           |  | 4000                      | 15.06        | 25               | 5-145       |          |              |                                                           |  |
| 13C12-PCB-081                           |  | 4000                      | 22.44        | 55               | 10-145      |          |              |                                                           |  |
| 13C12-PCB-077                           |  | 4000                      | 22.74        | 55               | 10-145      |          |              |                                                           |  |
| 13C12-PCB-104                           |  | 4000                      | 18.10        | 38               | 10-145      |          |              |                                                           |  |
| 13C12-PCB-123                           |  | 4000                      | 23.69        | 62               | 10-145      |          |              |                                                           |  |
| 13C12-PCB-118                           |  | 4000                      | 23.86        | 66               | 10-145      |          |              |                                                           |  |
| 13C12-PCB-114                           |  | 4000                      | 24.17        | 63               | 10-145      |          |              |                                                           |  |
| 13C12-PCB-105                           |  | 4000                      | 24.53        | 68               | 10-145      |          |              |                                                           |  |
| 13C12-PCB-126                           |  | 4000                      | 26.12        | 65               | 10-145      |          |              |                                                           |  |
| 13C12-PCB-155                           |  | 4000                      | 21.08        | 52               | 10-145      |          |              |                                                           |  |
| 13C12-PCB-167                           |  | 4000                      | 26.97        | 66               | 10-145      |          |              |                                                           |  |
| 13C12-PCB-156/157                       |  | 8000                      | 27.63        | 67               | 10-145      |          |              |                                                           |  |
| 13C12-PCB-169                           |  | 4000                      | 29.28        | 68               | 10-145      |          |              |                                                           |  |
| 13C12-PCB-188                           |  | 4000                      | 24.07        | 62               | 10-145      |          |              |                                                           |  |
| 13C12-PCB-189                           |  | 4000                      | 30.54        | 66               | 10-145      |          |              |                                                           |  |
| 13C12-PCB-202                           |  | 4000                      | 26.85        | 70               | 10-145      |          |              |                                                           |  |
| 13C12-PCB-205                           |  | 4000                      | 31.99        | 72               | 10-145      |          |              |                                                           |  |
| 13C12-PCB-208                           |  | 4000                      | 30.26        | 76               | 10-145      |          |              |                                                           |  |
| 13C12-PCB-206                           |  | 4000                      | 33.11        | 75               | 10-145      |          |              |                                                           |  |
| 13C12-PCB-209                           |  | 4000                      | 34.28        | 81               | 10-145      |          |              |                                                           |  |
|                                         |  |                           |              |                  |             |          |              |                                                           |  |
| Cleanup Standards                       |  |                           |              |                  |             |          |              |                                                           |  |
| 13C12-PCB-028                           |  | 4000                      | 16.59        | 33               | 5-145       |          |              |                                                           |  |
| 13C12-PCB-111                           |  | 4000                      | 22.61        | 52               | 10-145      |          |              |                                                           |  |
| 13C12-PCB-178                           |  | 4000                      | 25.66        | 53               | 10-145      |          |              |                                                           |  |

| ALS Life Sciences                       |  |                                                                                                                                                   |                      |                       |                     |              |                      |                                                                         |  |
|-----------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-----------------------|---------------------|--------------|----------------------|-------------------------------------------------------------------------|--|
| Laboratory Method Blank Analysis Report |  |                                                                                                                                                   |                      |                       |                     |              |                      |                                                                         |  |
| <b>Sample Name</b>                      |  | <b>Method Blank</b>                                                                                                                               |                      | Sampling Date         |                     | n/a          |                      | <div>Approved:<br/>S.Sarhaddi<br/>--e-signature--<br/>15-Aug-2024</div> |  |
| ALS Sample ID                           |  | WG3789754-4                                                                                                                                       |                      | Extraction Date       |                     | 6-Jul-24     |                      |                                                                         |  |
| Analysis Method                         |  | EPA 1668C                                                                                                                                         |                      | Sample Size           |                     | 3g           |                      |                                                                         |  |
| Analysis Type                           |  | Blank                                                                                                                                             |                      | Percent Moisture      |                     | n/a          |                      |                                                                         |  |
| Sample Matrix                           |  | QC                                                                                                                                                |                      | Split Ratio           |                     | 4            |                      |                                                                         |  |
| <b>Run Information</b>                  |  | <b>Run 1</b>                                                                                                                                      |                      |                       |                     |              |                      |                                                                         |  |
| Filename                                |  | 6-240714A06                                                                                                                                       |                      |                       |                     |              |                      |                                                                         |  |
| Run Date                                |  | 14-Jul-24 11:01                                                                                                                                   |                      |                       |                     |              |                      |                                                                         |  |
| Final Volume                            |  | 25 ul                                                                                                                                             |                      |                       |                     |              |                      |                                                                         |  |
| Dilution Factor                         |  | 1                                                                                                                                                 |                      |                       |                     |              |                      |                                                                         |  |
| Analysis Units                          |  | pg/g                                                                                                                                              |                      |                       |                     |              |                      |                                                                         |  |
| Instrument - Column                     |  | HRMS-6 SPBOCTYL-281311-07                                                                                                                         |                      |                       |                     |              |                      |                                                                         |  |
|                                         |  |                                                                                                                                                   |                      |                       |                     |              |                      |                                                                         |  |
| <b>Target Analytes</b>                  |  | <b>TEF<br/>(WHO 2005)</b>                                                                                                                         | <b>Ret.<br/>Time</b> | <b>Conc.<br/>pg/g</b> | <b>EDL<br/>pg/g</b> | <b>Flags</b> | <b>EMPC<br/>pg/g</b> | <b>LQL</b>                                                              |  |
| <b>Homologue Group Totals</b>           |  |                                                                                                                                                   |                      |                       |                     |              |                      |                                                                         |  |
| Total MonoCB                            |  |                                                                                                                                                   |                      | <4.1                  | 4.1                 | U            |                      | 130                                                                     |  |
| Total DiCB                              |  |                                                                                                                                                   |                      | <19                   | 19                  | U            |                      | 270                                                                     |  |
| Total TriCB                             |  |                                                                                                                                                   |                      | <4.1                  | 4.1                 | U            |                      | 270                                                                     |  |
| Total TetraCB                           |  |                                                                                                                                                   |                      | 12.5                  | 2.0                 | J            |                      | 530                                                                     |  |
| Total PentaCB                           |  |                                                                                                                                                   |                      | <3.6                  | 3.6                 | U            |                      | 530                                                                     |  |
| Total HexaCB                            |  |                                                                                                                                                   |                      | 1.87                  | 1.4                 | J            |                      | 530                                                                     |  |
| Total HeptaCB                           |  |                                                                                                                                                   |                      | <1.0                  | 1.0                 | U            |                      | 270                                                                     |  |
| Total OctaCB                            |  |                                                                                                                                                   |                      | 2.32                  | 0.97                | J            |                      | 270                                                                     |  |
| Total NonaCB                            |  |                                                                                                                                                   |                      | <2.1                  | 2.1                 | U            |                      | 130                                                                     |  |
| DecaCB                                  |  |                                                                                                                                                   |                      | <0.71                 | 0.71                | U            |                      | 130                                                                     |  |
| Total PCB                               |  |                                                                                                                                                   |                      | 16.7                  |                     | J            |                      | 1100                                                                    |  |
| <b>Toxic Equivalency - (WHO 2005)</b>   |  |                                                                                                                                                   |                      |                       |                     |              |                      |                                                                         |  |
| Lower Bound PCB TEQ                     |  |                                                                                                                                                   |                      | 0.00                  |                     |              |                      |                                                                         |  |
| Mid Point PCB TEQ                       |  |                                                                                                                                                   |                      | 0.255                 |                     |              |                      |                                                                         |  |
| Upper Bound PCB TEQ                     |  |                                                                                                                                                   |                      | 0.510                 |                     |              |                      |                                                                         |  |
|                                         |  |                                                                                                                                                   |                      |                       |                     |              |                      |                                                                         |  |
| EDL                                     |  | Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.                                   |                      |                       |                     |              |                      |                                                                         |  |
| TEF                                     |  | Indicates the Toxic Equivalency Factor                                                                                                            |                      |                       |                     | TEQ          |                      | Indicates the Toxic Equivalency                                         |  |
| LQL                                     |  | Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.                                |                      |                       |                     |              |                      |                                                                         |  |
| M                                       |  | Indicates that a peak has been manually integrated.                                                                                               |                      |                       |                     |              |                      |                                                                         |  |
| U                                       |  | Indicates that this compound was not detected above the EDL.                                                                                      |                      |                       |                     |              |                      |                                                                         |  |
|                                         |  |                                                                                                                                                   |                      |                       |                     |              |                      |                                                                         |  |
| J                                       |  | Indicates that the analyte was positively identified. The associated numerical result is an estimate.                                             |                      |                       |                     |              |                      |                                                                         |  |
| R                                       |  | Indicates that the ion abundance ratio for this analyte did not meet the control limit. The reported value represents an estimated concentration. |                      |                       |                     |              |                      |                                                                         |  |
|                                         |  |                                                                                                                                                   |                      |                       |                     |              |                      |                                                                         |  |
| EMPC                                    |  | Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure                          |                      |                       |                     |              |                      |                                                                         |  |

| ALS Life Sciences                         |  |                           |           |       |                  |       |          |  |                                                           |
|-------------------------------------------|--|---------------------------|-----------|-------|------------------|-------|----------|--|-----------------------------------------------------------|
| Laboratory Control Sample Analysis Report |  |                           |           |       |                  |       |          |  |                                                           |
| Sample Name                               |  | Laboratory Control Sample |           |       | Sampling Date    |       | n/a      |  | Approved:<br>S.Sarhaddi<br>--e-signature--<br>14-Aug-2024 |
| ALS Sample ID                             |  | WG3789754-2               |           |       | Extraction Date  |       | 6-Jul-24 |  |                                                           |
| Analysis Method                           |  | EPA 1668C                 |           |       | Sample Size      |       | 1 n/a    |  |                                                           |
| Analysis Type                             |  | LCS                       |           |       | Percent Moisture |       | n/a      |  |                                                           |
| Sample Matrix                             |  | QC                        |           |       | Split Ratio      |       | 1        |  |                                                           |
| Run Information                           |  | Run 1                     |           |       |                  |       |          |  |                                                           |
| Filename                                  |  | 6-240714A03               |           |       |                  |       |          |  |                                                           |
| Run Date                                  |  | 14-Jul-24 08:42           |           |       |                  |       |          |  |                                                           |
| Final Volume                              |  | 25 ul                     |           |       |                  |       |          |  |                                                           |
| Dilution Factor                           |  | 1                         |           |       |                  |       |          |  |                                                           |
| Analysis Units                            |  | % Rec                     |           |       |                  |       |          |  |                                                           |
| Instrument - Column                       |  | HRMS-6 SPBOCTYL-281311-07 |           |       |                  |       |          |  |                                                           |
|                                           |  |                           |           |       |                  |       |          |  |                                                           |
| Target Analytes                           |  | pg                        | Ret. Time | % Rec | Limits           | Flags |          |  |                                                           |
| PCB-001                                   |  | 2000                      | 9.40      | 108   | 60-135           |       |          |  |                                                           |
| PCB-003                                   |  | 2000                      | 10.97     | 98    | 60-135           |       |          |  |                                                           |
| PCB-004                                   |  | 2000                      | 11.14     | 105   | 60-135           |       |          |  |                                                           |
| PCB-015                                   |  | 2000                      | 14.87     | 106   | 60-135           |       |          |  |                                                           |
| PCB-019                                   |  | 2000                      | 13.18     | 107   | 60-135           |       |          |  |                                                           |
| PCB-037                                   |  | 2000                      | 18.84     | 114   | 60-135           |       |          |  |                                                           |
| PCB-054                                   |  | 2000                      | 15.06     | 100   | 60-135           |       |          |  |                                                           |
| PCB-081                                   |  | 2000                      | 22.42     | 105   | 60-135           |       |          |  |                                                           |
| PCB-077                                   |  | 2000                      | 22.72     | 104   | 60-135           |       |          |  |                                                           |
| PCB-104                                   |  | 2000                      | 18.10     | 97    | 60-135           |       |          |  |                                                           |
| PCB-123                                   |  | 2000                      | 23.69     | 101   | 60-135           |       |          |  |                                                           |
| PCB-118                                   |  | 2000                      | 23.86     | 99    | 60-135           |       |          |  |                                                           |
| PCB-114                                   |  | 2000                      | 24.16     | 106   | 60-135           |       |          |  |                                                           |
| PCB-105                                   |  | 2000                      | 24.52     | 91    | 60-135           |       |          |  |                                                           |
| PCB-126                                   |  | 2000                      | 26.10     | 98    | 60-135           |       |          |  |                                                           |
| PCB-155                                   |  | 2000                      | 21.08     | 89    | 60-135           |       |          |  |                                                           |
| PCB-167                                   |  | 2000                      | 26.99     | 89    | 60-135           |       |          |  |                                                           |
| PCB-156/157                               |  | 4000                      | 27.63     | 90    | 60-135           |       |          |  |                                                           |
| PCB-169                                   |  | 2000                      | 29.28     | 90    | 60-135           |       |          |  |                                                           |
| PCB-188                                   |  | 2000                      | 24.09     | 85    | 60-135           |       |          |  |                                                           |
| PCB-189                                   |  | 2000                      | 30.54     | 94    | 60-135           |       |          |  |                                                           |
| PCB-202                                   |  | 2000                      | 26.87     | 96    | 60-135           |       |          |  |                                                           |
| PCB-205                                   |  | 2000                      | 32.00     | 91    | 60-135           |       |          |  |                                                           |
| PCB-208                                   |  | 2000                      | 30.27     | 98    | 60-135           |       |          |  |                                                           |
| PCB-206                                   |  | 2000                      | 33.12     | 92    | 60-135           |       |          |  |                                                           |
| PCB-209                                   |  | 2000                      | 34.31     | 113   | 60-135           |       |          |  |                                                           |
|                                           |  |                           |           |       |                  |       |          |  |                                                           |
| Extraction Standards                      |  |                           | Time      | % Rec | Limits           |       |          |  |                                                           |
| 13C12-PCB-001                             |  | 4000                      | 9.39      | 38    | 15-145           |       |          |  |                                                           |
| 13C12-PCB-003                             |  | 4000                      | 10.96     | 34    | 15-145           |       |          |  |                                                           |
| 13C12-PCB-004                             |  | 4000                      | 11.13     | 41    | 15-145           |       |          |  |                                                           |
| 13C12-PCB-015                             |  | 4000                      | 14.86     | 45    | 15-145           |       |          |  |                                                           |
| 13C12-PCB-019                             |  | 4000                      | 13.16     | 43    | 15-145           |       |          |  |                                                           |
| 13C12-PCB-037                             |  | 4000                      | 18.83     | 48    | 15-145           |       |          |  |                                                           |
| 13C12-PCB-054                             |  | 4000                      | 15.05     | 48    | 15-145           |       |          |  |                                                           |
| 13C12-PCB-081                             |  | 4000                      | 22.41     | 54    | 40-145           |       |          |  |                                                           |
| 13C12-PCB-077                             |  | 4000                      | 22.71     | 54    | 40-145           |       |          |  |                                                           |
| 13C12-PCB-104                             |  | 4000                      | 18.09     | 51    | 40-145           |       |          |  |                                                           |
| 13C12-PCB-123                             |  | 4000                      | 23.67     | 58    | 40-145           |       |          |  |                                                           |
| 13C12-PCB-118                             |  | 4000                      | 23.84     | 61    | 40-145           |       |          |  |                                                           |
| 13C12-PCB-114                             |  | 4000                      | 24.15     | 56    | 40-145           |       |          |  |                                                           |
| 13C12-PCB-105                             |  | 4000                      | 24.51     | 63    | 40-145           |       |          |  |                                                           |
| 13C12-PCB-126                             |  | 4000                      | 26.10     | 57    | 40-145           |       |          |  |                                                           |
| 13C12-PCB-155                             |  | 4000                      | 21.07     | 56    | 40-145           |       |          |  |                                                           |
| 13C12-PCB-167                             |  | 4000                      | 26.96     | 60    | 40-145           |       |          |  |                                                           |
| 13C12-PCB-156/157                         |  | 8000                      | 27.61     | 59    | 40-145           |       |          |  |                                                           |
| 13C12-PCB-169                             |  | 4000                      | 29.27     | 63    | 40-145           |       |          |  |                                                           |
| 13C12-PCB-188                             |  | 4000                      | 24.07     | 55    | 40-145           |       |          |  |                                                           |
| 13C12-PCB-189                             |  | 4000                      | 30.53     | 68    | 40-145           |       |          |  |                                                           |
| 13C12-PCB-202                             |  | 4000                      | 26.85     | 60    | 40-145           |       |          |  |                                                           |
| 13C12-PCB-205                             |  | 4000                      | 31.98     | 63    | 40-145           |       |          |  |                                                           |
| 13C12-PCB-208                             |  | 4000                      | 30.26     | 66    | 40-145           |       |          |  |                                                           |
| 13C12-PCB-206                             |  | 4000                      | 33.11     | 68    | 40-145           |       |          |  |                                                           |
| 13C12-PCB-209                             |  | 4000                      | 34.30     | 70    | 40-145           |       |          |  |                                                           |
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| Cleanup Standards                         |  |                           |           |       |                  |       |          |  |                                                           |
| 13C12-PCB-028                             |  | 4000                      | 16.56     | 70    | 15-145           |       |          |  |                                                           |
| 13C12-PCB-111                             |  | 4000                      | 22.59     | 79    | 40-145           |       |          |  |                                                           |
| 13C12-PCB-178                             |  | 4000                      | 25.64     | 79    | 40-145           |       |          |  |                                                           |
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| <b>Report To</b>                                            |                                      | <b>Report Format / Distribution</b>                                                                                                     |                                           |                                           |                                           | <b>Select Service Lev</b>                |                                                         |
| Company:                                                    | Wildland Management Consultants Ltd. | Select Report Format:                                                                                                                   | <input checked="" type="checkbox"/> PDF   | <input checked="" type="checkbox"/> EXCEL | <input type="checkbox"/> EDD (DIGITAL)    | <b>R</b>                                 | <input checked="" type="checkbox"/> Regular (Standard 1 |
| Contact:                                                    | Lawrence Brusnyk                     | Quality Control (QC) Report with Report                                                                                                 | <input checked="" type="checkbox"/> Yes   | <input type="checkbox"/> No               |                                           | <b>P</b>                                 | <input type="checkbox"/> Priority (2-4 bus. da          |
| Address:                                                    | 50345 Range Road 2222                | Criteria on Report - provide details below if box checked                                                                               | <input type="checkbox"/>                  |                                           |                                           | <b>E</b>                                 | <input type="checkbox"/> Emergency (1-2 bu              |
|                                                             | Leduc County, Alberta, T0B 3M2       | Select Distribution:                                                                                                                    | <input checked="" type="checkbox"/> EMAIL | <input type="checkbox"/> MAIL             | <input type="checkbox"/> FAX              | <b>E2</b>                                | <input type="checkbox"/> Same day or week               |
| Phone:                                                      | 780.915.4856                         | Email 1 or Fax                                                                                                                          | lbrusnyk@xploneml.com                     |                                           |                                           | Specify Date Required                    |                                                         |
|                                                             |                                      | Email 2                                                                                                                                 |                                           |                                           |                                           |                                          |                                                         |
| Invoice To                                                  | Same as Report To                    | <input checked="" type="checkbox"/> Yes                                                                                                 | <input type="checkbox"/> No               | <b>Invoice Distribution</b>               |                                           | Indicate Filtered (f)                    |                                                         |
|                                                             | Copy of Invoice with Report          | <input checked="" type="checkbox"/> Yes                                                                                                 | <input type="checkbox"/> No               | Select Invoice Distribution:              | <input checked="" type="checkbox"/> EMAIL | <input type="checkbox"/> MAIL            | <input type="checkbox"/> FAX                            |
| Company:                                                    |                                      | Email 1 or Fax lbrusnyk@xploneml.com                                                                                                    |                                           |                                           |                                           |                                          |                                                         |
| Contact:                                                    |                                      | Email 2                                                                                                                                 |                                           |                                           |                                           |                                          |                                                         |
| <b>Project Information</b>                                  |                                      | <b>Oil and Gas Required Fields (client use)</b>                                                                                         |                                           |                                           |                                           |                                          |                                                         |
| ALS Quote #:                                                | Q090321                              | Approver ID:                                                                                                                            | Cost Center:                              |                                           |                                           |                                          |                                                         |
| Job #:                                                      | SHTC 11-086                          | GL Account:                                                                                                                             | Routing Code:                             |                                           |                                           |                                          |                                                         |
| PO / AFE:                                                   |                                      | Activity Code:                                                                                                                          |                                           |                                           |                                           |                                          |                                                         |
| LSD:                                                        |                                      | Location:                                                                                                                               |                                           |                                           |                                           |                                          |                                                         |
| ALS Lab Work Order # (lab use only)                         |                                      | ALS Contact:                                                                                                                            | Dana Bush                                 | Sampler:                                  | LdB/JK                                    |                                          |                                                         |
| ALS Sample # (lab use only)                                 |                                      | <b>Sample Identification and/or Coordinates</b><br>(This description will appear on the report)                                         |                                           | <b>Date</b><br>(dd-mm-yy)                 | <b>Time</b><br>(hh:mm)                    | <b>Sample Type</b>                       |                                                         |
|                                                             |                                      |                                                                                                                                         |                                           |                                           |                                           | Dioxins and Furans                       | R                                                       |
|                                                             |                                      |                                                                                                                                         |                                           |                                           |                                           | PCB Congeners                            | R                                                       |
|                                                             |                                      |                                                                                                                                         |                                           |                                           |                                           | Metals                                   | R                                                       |
|                                                             |                                      |                                                                                                                                         |                                           |                                           |                                           | PAHs                                     | R                                                       |
|                                                             |                                      |                                                                                                                                         |                                           |                                           |                                           | Aroclor PCBs                             | R                                                       |
| Plot 4 - 6 jars                                             |                                      |                                                                                                                                         |                                           | May 17 - 25/2024                          |                                           |                                          | R                                                       |
| Plot 11 - 4 jars                                            |                                      |                                                                                                                                         |                                           | May 17 - 25/2024                          |                                           |                                          | R                                                       |
| Plot 70 - 3 jars                                            |                                      |                                                                                                                                         |                                           | May 17 - 25/2024                          |                                           |                                          | R                                                       |
| Plot 71 - 5 jars                                            |                                      |                                                                                                                                         |                                           | May 17 - 25/2024                          |                                           |                                          | R                                                       |
| Plot 109 - 5 jars                                           |                                      |                                                                                                                                         |                                           | May 17 - 25/2024                          |                                           |                                          | R                                                       |
| Plot 110 - 4 jars                                           |                                      |                                                                                                                                         |                                           | May 17 - 25/2024                          |                                           |                                          | R                                                       |
| Plot 114 - 4 jars                                           |                                      |                                                                                                                                         |                                           | May 17 - 25/2024                          |                                           |                                          | R                                                       |
| Plot 117 - 1 jar                                            |                                      |                                                                                                                                         |                                           | May 17 - 25/2024                          |                                           |                                          | R                                                       |
| Plot 123 - 3 jars                                           |                                      |                                                                                                                                         |                                           | May 17 - 25/2024                          |                                           |                                          | R                                                       |
| Plot 402 - 6 jars                                           |                                      |                                                                                                                                         |                                           | May 17 - 25/2024                          |                                           |                                          | R                                                       |
| Total No. Jars                                              |                                      |                                                                                                                                         |                                           |                                           |                                           |                                          | R                                                       |
| <b>Drinking Water (DW) Samples<sup>1</sup> (client use)</b> |                                      | <b>Special Instructions / Specify Criteria to add on report (client Use)</b>                                                            |                                           |                                           |                                           |                                          |                                                         |
| Are samples taken from a Regulated DW System?               |                                      | Composite vole tissue samples by plot number and report % moisture. Also, please include wet and dry concentrations for all parameters. |                                           |                                           |                                           |                                          |                                                         |
| <input type="checkbox"/> Yes <input type="checkbox"/> No    |                                      |                                                                                                                                         |                                           |                                           |                                           |                                          |                                                         |
| Are samples for human drinking water use?                   |                                      |                                                                                                                                         |                                           |                                           |                                           |                                          |                                                         |
| <input type="checkbox"/> Yes <input type="checkbox"/> No    |                                      |                                                                                                                                         |                                           |                                           |                                           |                                          |                                                         |
| SHIPMENT RELEASE (client use)                               |                                      | INITIAL SHIPMENT RECEPTION (lab use only)                                                                                               |                                           |                                           |                                           |                                          |                                                         |
| Released by: Lawrence Brusnyk                               |                                      | Date: June 05/24                                                                                                                        |                                           | Time: 1000 hr                             |                                           | Received by: <i>MA</i>                   |                                                         |
|                                                             |                                      |                                                                                                                                         |                                           |                                           |                                           | Date: <i>5 June 24</i> Time: <i>9:43</i> |                                                         |
|                                                             |                                      |                                                                                                                                         |                                           |                                           |                                           | Received by:                             |                                                         |
|                                                             |                                      |                                                                                                                                         |                                           |                                           |                                           | Date:                                    |                                                         |
|                                                             |                                      |                                                                                                                                         |                                           |                                           |                                           | Time:                                    |                                                         |
|                                                             |                                      |                                                                                                                                         |                                           |                                           |                                           | FINAL SHIPMENT RECEPTION (lab use only)  |                                                         |
|                                                             |                                      |                                                                                                                                         |                                           |                                           |                                           | Date:                                    |                                                         |
|                                                             |                                      |                                                                                                                                         |                                           |                                           |                                           | Time:                                    |                                                         |
|                                                             |                                      |                                                                                                                                         |                                           |                                           |                                           | FINAL SHIPMENT RECEPTION (lab use only)  |                                                         |
|                                                             |                                      |                                                                                                                                         |                                           |                                           |                                           | Date:                                    |                                                         |
|                                                             |                                      |                                                                                                                                         |                                           |                                           |                                           | Time:                                    |                                                         |
|                                                             |                                      |                                                                                                                                         |                                           |                                           |                                           | FINAL SHIPMENT RECEPTION (lab use only)  |                                                         |
|                                                             |                                      |                                                                                                                                         |                                           |                                           |                                           | Date:                                    |                                                         |
|                                                             |                                      |                                                                                                                                         |                                           |                                           |                                           | Time:                                    |                                                         |
|                                                             |                                      |                                                                                                                                         |                                           |                                           |                                           | FINAL SHIPMENT RECEPTION (lab use only)  |                                                         |
|                                                             |                                      |                                                                                                                                         |                                           |                                           |                                           | Date:                                    |                                                         |
|                                                             |                                      |                                                                                                                                         |                                           |                                           |                                           | Time:                                    |                                                         |
|                                                             |                                      |                                                                                                                                         |                                           |                                           |                                           | FINAL SHIPMENT RECEPTION (lab use only)  |                                                         |
|                                                             |                                      |                                                                                                                                         |                                           |                                           |                                           | Date:                                    |                                                         |
|                                                             |                                      |                                                                                                                                         |                                           |                                           |                                           | Time:                                    |                                                         |
|                                                             |                                      |                                                                                                                                         |                                           |                                           |                                           | FINAL SHIPMENT RECEPTION (lab use only)  |                                                         |
|                                                             |                                      |                                                                                                                                         |                                           |                                           |                                           | Date:                                    |                                                         |
|                                                             |                                      |                                                                                                                                         |                                           |                                           |                                           | Time:                                    |                                                         |
|                                                             |                                      |                                                                                                                                         |                                           |                                           |                                           | FINAL SHIPMENT RECEPTION (lab use only)  |                                                         |
|                                                             |                                      |                                                                                                                                         |                                           |                                           |                                           | Date:                                    |                                                         |
|                                                             |                                      |                                                                                                                                         |                                           |                                           |                                           | Time:                                    |                                                         |
|                                                             |                                      |                                                                                                                                         |                                           |                                           |                                           | FINAL SHIPMENT RECEPTION (lab use only)  |                                                         |
|                                                             |                                      |                                                                                                                                         |                                           |                                           |                                           | Date:                                    |                                                         |
|                                                             |                                      |                                                                                                                                         |                                           |                                           |                                           | Time:                                    |                                                         |
|                                                             |                                      |                                                                                                                                         |                                           |                                           |                                           | FINAL SHIPMENT RECEPTION (lab use only)  |                                                         |
|                                                             |                                      |                                                                                                                                         |                                           |                                           |                                           | Date:                                    |                                                         |
|                                                             |                                      |                                                                                                                                         |                                           |                                           |                                           | Time:                                    |                                                         |
|                                                             |                                      |                                                                                                                                         |                                           |                                           |                                           | FINAL SHIPMENT RECEPTION (lab use only)  |                                                         |
|                                                             |                                      |                                                                                                                                         |                                           |                                           |                                           | Date:                                    |                                                         |
|                                                             |                                      |                                                                                                                                         |                                           |                                           |                                           | Time:                                    |                                                         |
|                                                             |                                      |                                                                                                                                         |                                           |                                           |                                           | FINAL SHIPMENT RECEPTION (lab use only)  |                                                         |
|                                                             |                                      |                                                                                                                                         |                                           |                                           |                                           | Date:                                    |                                                         |
|                                                             |                                      |                                                                                                                                         |                                           |                                           |                                           | Time:                                    |                                                         |
|                                                             |                                      |                                                                                                                                         |                                           |                                           |                                           | FINAL SHIPMENT RECEPTION (lab use only)  |                                                         |
|                                                             |                                      |                                                                                                                                         |                                           |                                           |                                           | Date:                                    |                                                         |
|                                                             |                                      |                                                                                                                                         |                                           |                                           |                                           | Time:                                    |                                                         |
|                                                             |                                      |                                                                                                                                         |                                           |                                           |                                           | FINAL SHIPMENT RECEPTION (lab use only)  |                                                         |
|                                                             |                                      |                                                                                                                                         |                                           |                                           |                                           | Date:                                    |                                                         |
|                                                             |                                      |                                                                                                                                         |                                           |                                           |                                           | Time:                                    |                                                         |
|                                                             |                                      |                                                                                                                                         |                                           |                                           |                                           | FINAL SHIPMENT RECEPTION (lab use only)  |                                                         |
|                                                             |                                      |                                                                                                                                         |                                           |                                           |                                           | Date:                                    |                                                         |
|                                                             |                                      |                                                                                                                                         |                                           |                                           |                                           | Time:                                    |                                                         |
|                                                             |                                      |                                                                                                                                         |                                           |                                           |                                           | FINAL SHIPMENT RECEPTION (lab use only)  |                                                         |
|                                                             |                                      |                                                                                                                                         |                                           |                                           |                                           | Date:                                    |                                                         |
|                                                             |                                      |                                                                                                                                         |                                           |                                           |                                           | Time:                                    |                                                         |
|                                                             |                                      |                                                                                                                                         |                                           |                                           |                                           | FINAL SHIPMENT RECEPTION (lab use only)  |                                                         |
|                                                             |                                      |                                                                                                                                         |                                           |                                           |                                           |                                          |                                                         |

Number of Containe



CERTIFICATE OF ANALYSIS

|                         |                                                             |                       |                                                     |
|-------------------------|-------------------------------------------------------------|-----------------------|-----------------------------------------------------|
| Work Order              | : EO2404299                                                 | Page                  | : 1 of 26                                           |
| Client                  | : Wildland Management Consultants Ltd.                      | Laboratory            | : ALS Environmental - Edmonton                      |
| Contact                 | : Lawrence Brusnyk                                          | Account Manager       | : Dana Brown                                        |
| Address                 | : 50345 Range Road 222<br>Leduc County AB Canada T0B 3M2    | Address               | : 9450 - 17 Avenue NW<br>Edmonton AB Canada T6N 1M9 |
| Telephone               | : 780-915-4856                                              | Telephone             | : 7804136472                                        |
| Project                 | : SHTC 11-086                                               | Date Samples Received | : 05-Jun-2024 09:43                                 |
| PO                      | : ----                                                      | Date Analysis         | : 18-Jul-2024                                       |
|                         |                                                             | Commenced             |                                                     |
| C-O-C number            | : ----                                                      | Issue Date            | : 20-Jul-2024 08:45                                 |
| Sampler                 | : LdB/JK                                                    |                       |                                                     |
| Site                    | : ----                                                      |                       |                                                     |
| Quote number            | : EO24-WMCL100-0001 Swanhills -Metals and Prep<br>for Voles |                       |                                                     |
| No. of samples received | : 10                                                        |                       |                                                     |
| No. of samples analysed | : 10                                                        |                       |                                                     |

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

| Signatories  | Position                                | Laboratory Department             |
|--------------|-----------------------------------------|-----------------------------------|
| Dan Gebert   | Laboratory Analyst                      | Metals, Burnaby, British Columbia |
| Kevin Duarte | Supervisor - Metals ICP Instrumentation | Metals, Burnaby, British Columbia |
| Owen Cheng   |                                         | Metals, Burnaby, British Columbia |



## General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances  
LOR: Limit of Reporting (detection limit).  
Measurement Uncertainty: The reported uncertainties in this report are expanded uncertainties calculated using a coverage factor of 2, which gives a level of confidence of approximately 95%.  
Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

| <i>Unit</i> | <i>Description</i>                 |
|-------------|------------------------------------|
| %           | percent                            |
| mg/kg       | milligrams per kilogram            |
| mg/kg ww    | milligrams per kilogram wet weight |

>: greater than.

<: less than.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.



Analytical Results

EO2404299-001

Sub-Matrix: Tissue

(Matrix: Biota)

Client sample ID: Plot 4 - 6 jars

Client sampling date / time: 25-May-2024

| Analyte        | CAS Number | Result  | LOR    | Unit  | Method/Lab | Prep Date   | Analysis Date | QCLot   |
|----------------|------------|---------|--------|-------|------------|-------------|---------------|---------|
| Physical Tests |            |         |        |       |            |             |               |         |
| Moisture       | ----       | 70.9    | 0.50   | %     | E144/VA    | -           | 18-Jul-2024   | 1551440 |
| Metals         |            |         |        |       |            |             |               |         |
| Aluminum       | 7429-90-5  | 92.1    | 2.0    | mg/kg | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Aluminum       | 7429-90-5  | 26.8    | 0.40   | mg/kg | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
|                |            |         |        | wwt   |            |             |               |         |
| Antimony       | 7440-36-0  | 0.013   | 0.010  | mg/kg | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Antimony       | 7440-36-0  | 0.0037  | 0.0020 | mg/kg | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
|                |            |         |        | wwt   |            |             |               |         |
| Arsenic        | 7440-38-2  | 0.162   | 0.020  | mg/kg | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Arsenic        | 7440-38-2  | 0.0472  | 0.0040 | mg/kg | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
|                |            |         |        | wwt   |            |             |               |         |
| Barium         | 7440-39-3  | 18.1    | 0.050  | mg/kg | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Barium         | 7440-39-3  | 5.27    | 0.010  | mg/kg | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
|                |            |         |        | wwt   |            |             |               |         |
| Beryllium      | 7440-41-7  | <0.010  | 0.010  | mg/kg | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Beryllium      | 7440-41-7  | <0.0020 | 0.0020 | mg/kg | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
|                |            |         |        | wwt   |            |             |               |         |
| Bismuth        | 7440-69-9  | 0.045   | 0.010  | mg/kg | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Bismuth        | 7440-69-9  | 0.0131  | 0.0020 | mg/kg | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
|                |            |         |        | wwt   |            |             |               |         |
| Boron          | 7440-42-8  | 1.3     | 1.0    | mg/kg | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Boron          | 7440-42-8  | 0.37    | 0.20   | mg/kg | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
|                |            |         |        | wwt   |            |             |               |         |
| Cadmium        | 7440-43-9  | 0.120   | 0.0050 | mg/kg | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Cadmium        | 7440-43-9  | 0.0347  | 0.0010 | mg/kg | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
|                |            |         |        | wwt   |            |             |               |         |
| Calcium        | 7440-70-2  | 21800   | 20     | mg/kg | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Calcium        | 7440-70-2  | 6330    | 4.0    | mg/kg | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
|                |            |         |        | wwt   |            |             |               |         |
| Cesium         | 7440-46-2  | 0.0698  | 0.0050 | mg/kg | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Cesium         | 7440-46-2  | 0.0203  | 0.0010 | mg/kg | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
|                |            |         |        | wwt   |            |             |               |         |
| Chromium       | 7440-47-3  | 0.193   | 0.050  | mg/kg | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Chromium       | 7440-47-3  | 0.056   | 0.010  | mg/kg | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
|                |            |         |        | wwt   |            |             |               |         |
| Cobalt         | 7440-48-4  | 0.303   | 0.020  | mg/kg | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Cobalt         | 7440-48-4  | 0.0880  | 0.0040 | mg/kg | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
|                |            |         |        | wwt   |            |             |               |         |
| Copper         | 7440-50-8  | 13.6    | 0.10   | mg/kg | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Copper         | 7440-50-8  | 3.95    | 0.020  | mg/kg | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
|                |            |         |        | wwt   |            |             |               |         |
| Iron           | 7439-89-6  | 420     | 3.0    | mg/kg | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Iron           | 7439-89-6  | 122     | 0.60   | mg/kg | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
|                |            |         |        | wwt   |            |             |               |         |
| Lead           | 7439-92-1  | 0.840   | 0.020  | mg/kg | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Lead           | 7439-92-1  | 0.244   | 0.0040 | mg/kg | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
|                |            |         |        | wwt   |            |             |               |         |
| Lithium        | 7439-93-2  | <0.50   | 0.50   | mg/kg | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |



## Analytical Results

EO2404299-001

Sub-Matrix: Tissue

(Matrix: Biota)

Client sample ID: Plot 4 - 6 jars

Client sampling date / time: 25-May-2024

| Analyte       | CAS Number | Result  | LOR     | Unit         | Method/Lab  | Prep Date   | Analysis Date | QCLot   |
|---------------|------------|---------|---------|--------------|-------------|-------------|---------------|---------|
| <b>Metals</b> |            |         |         |              |             |             |               |         |
| Lithium       | 7439-93-2  | <0.10   | 0.10    | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Magnesium     | 7439-95-4  | 1240    | 2.0     | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Magnesium     | 7439-95-4  | 360     | 0.40    | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Manganese     | 7439-96-5  | 31.6    | 0.050   | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Manganese     | 7439-96-5  | 9.19    | 0.010   | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Mercury       | 7439-97-6  | 0.347   | 0.0055  | mg/kg        | E510/VA     | 18-Jul-2024 | 20-Jul-2024   | 1548953 |
| Mercury       | 7439-97-6  | 0.101   | 0.0016  | mg/kg<br>wwt | E510A/VA    | 18-Jul-2024 | 20-Jul-2024   | 1548952 |
| Molybdenum    | 7439-98-7  | 0.522   | 0.020   | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Molybdenum    | 7439-98-7  | 0.152   | 0.0040  | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Nickel        | 7440-02-0  | 0.53    | 0.20    | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Nickel        | 7440-02-0  | 0.155   | 0.040   | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Phosphorus    | 7723-14-0  | 18700   | 10      | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Phosphorus    | 7723-14-0  | 5440    | 2.0     | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Potassium     | 7440-09-7  | 11800   | 20      | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Potassium     | 7440-09-7  | 3430    | 4.0     | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Rubidium      | 7440-17-7  | 28.9    | 0.050   | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Rubidium      | 7440-17-7  | 8.39    | 0.010   | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Selenium      | 7782-49-2  | 0.909   | 0.050   | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Selenium      | 7782-49-2  | 0.264   | 0.010   | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Silver        | 7440-22-4  | 0.0133  | 0.0050  | mg/kg        | E440.Ag/VA  | 18-Jul-2024 | 18-Jul-2024   | 1548954 |
| Silver        | 7440-22-4  | 0.0038  | 0.0010  | mg/kg<br>wwt | E440A.Ag/VA | 18-Jul-2024 | 18-Jul-2024   | 1548951 |
| Sodium        | 7440-23-5  | 4890    | 20      | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Sodium        | 7440-23-5  | 1420    | 4.0     | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Strontium     | 7440-24-6  | 9.17    | 0.050   | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Strontium     | 7440-24-6  | 2.66    | 0.010   | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Tellurium     | 13494-80-9 | <0.020  | 0.020   | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Tellurium     | 13494-80-9 | <0.0040 | 0.0040  | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Thallium      | 7440-28-0  | 0.0057  | 0.0020  | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Thallium      | 7440-28-0  | 0.00166 | 0.00040 | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Tin           | 7440-31-5  | 0.33    | 0.10    | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Tin           | 7440-31-5  | 0.096   | 0.020   | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Uranium       | 7440-61-1  | 0.0076  | 0.0020  | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Uranium       | 7440-61-1  | 0.00222 | 0.00040 | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |



## Analytical Results

EO2404299-001

Sub-Matrix: Tissue

(Matrix: Biota)

Client sample ID: Plot 4 - 6 jars

Client sampling date / time: 25-May-2024

| Analyte       | CAS Number | Result | LOR   | Unit         | Method/Lab | Prep Date   | Analysis Date | QCLot   |
|---------------|------------|--------|-------|--------------|------------|-------------|---------------|---------|
| <b>Metals</b> |            |        |       |              |            |             |               |         |
| Vanadium      | 7440-62-2  | 0.24   | 0.10  | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Vanadium      | 7440-62-2  | 0.071  | 0.020 | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Zinc          | 7440-66-6  | 88.2   | 0.50  | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Zinc          | 7440-66-6  | 25.6   | 0.10  | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Zirconium     | 7440-67-7  | <0.20  | 0.20  | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Zirconium     | 7440-67-7  | <0.040 | 0.040 | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

## Analytical Results

EO2404299-002

Sub-Matrix: Tissue

(Matrix: Biota)

Client sample ID: Plot 11 - 4 jars

Client sampling date / time: 25-May-2024

| Analyte               | CAS Number | Result  | LOR    | Unit         | Method/Lab | Prep Date   | Analysis Date | QCLot   |
|-----------------------|------------|---------|--------|--------------|------------|-------------|---------------|---------|
| <b>Physical Tests</b> |            |         |        |              |            |             |               |         |
| Moisture              | ----       | 71.3    | 0.50   | %            | E144/VA    | -           | 18-Jul-2024   | 1551440 |
| <b>Metals</b>         |            |         |        |              |            |             |               |         |
| Aluminum              | 7429-90-5  | 37.2    | 2.0    | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Aluminum              | 7429-90-5  | 10.7    | 0.40   | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Antimony              | 7440-36-0  | <0.010  | 0.010  | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Antimony              | 7440-36-0  | 0.0024  | 0.0020 | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Arsenic               | 7440-38-2  | 0.069   | 0.020  | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Arsenic               | 7440-38-2  | 0.0199  | 0.0040 | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Barium                | 7440-39-3  | 17.3    | 0.050  | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Barium                | 7440-39-3  | 4.96    | 0.010  | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Beryllium             | 7440-41-7  | <0.010  | 0.010  | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Beryllium             | 7440-41-7  | <0.0020 | 0.0020 | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Bismuth               | 7440-69-9  | 0.015   | 0.010  | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Bismuth               | 7440-69-9  | 0.0043  | 0.0020 | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Boron                 | 7440-42-8  | 1.4     | 1.0    | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Boron                 | 7440-42-8  | 0.40    | 0.20   | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Cadmium               | 7440-43-9  | 0.105   | 0.0050 | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Cadmium               | 7440-43-9  | 0.0302  | 0.0010 | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Calcium               | 7440-70-2  | 16600   | 20     | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |



## Analytical Results

EO2404299-002

Sub-Matrix: Tissue

(Matrix: Biota)

Client sample ID: Plot 11 - 4 jars

Client sampling date / time: 25-May-2024

| Analyte       | CAS Number | Result | LOR    | Unit         | Method/Lab | Prep Date   | Analysis Date | QCLot   |
|---------------|------------|--------|--------|--------------|------------|-------------|---------------|---------|
| <b>Metals</b> |            |        |        |              |            |             |               |         |
| Calcium       | 7440-70-2  | 4750   | 4.0    | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Cesium        | 7440-46-2  | 0.0992 | 0.0050 | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Cesium        | 7440-46-2  | 0.0285 | 0.0010 | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Chromium      | 7440-47-3  | 0.096  | 0.050  | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Chromium      | 7440-47-3  | 0.028  | 0.010  | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Cobalt        | 7440-48-4  | 0.212  | 0.020  | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Cobalt        | 7440-48-4  | 0.0608 | 0.0040 | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Copper        | 7440-50-8  | 14.7   | 0.10   | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Copper        | 7440-50-8  | 4.21   | 0.020  | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Iron          | 7439-89-6  | 331    | 3.0    | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Iron          | 7439-89-6  | 94.9   | 0.60   | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Lead          | 7439-92-1  | 0.368  | 0.020  | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Lead          | 7439-92-1  | 0.106  | 0.0040 | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Lithium       | 7439-93-2  | <0.50  | 0.50   | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Lithium       | 7439-93-2  | <0.10  | 0.10   | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Magnesium     | 7439-95-4  | 1050   | 2.0    | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Magnesium     | 7439-95-4  | 301    | 0.40   | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Manganese     | 7439-96-5  | 38.1   | 0.050  | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Manganese     | 7439-96-5  | 10.9   | 0.010  | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Mercury       | 7439-97-6  | 0.320  | 0.0050 | mg/kg        | E510/VA    | 18-Jul-2024 | 20-Jul-2024   | 1548953 |
| Mercury       | 7439-97-6  | 0.0919 | 0.0013 | mg/kg<br>wwt | E510A/VA   | 18-Jul-2024 | 20-Jul-2024   | 1548952 |
| Molybdenum    | 7439-98-7  | 0.490  | 0.020  | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Molybdenum    | 7439-98-7  | 0.141  | 0.0040 | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Nickel        | 7440-02-0  | 0.45   | 0.20   | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Nickel        | 7440-02-0  | 0.129  | 0.040  | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Phosphorus    | 7723-14-0  | 15100  | 10     | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Phosphorus    | 7723-14-0  | 4350   | 2.0    | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Potassium     | 7440-09-7  | 10600  | 20     | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Potassium     | 7440-09-7  | 3050   | 4.0    | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Rubidium      | 7440-17-7  | 22.0   | 0.050  | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Rubidium      | 7440-17-7  | 6.32   | 0.010  | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Selenium      | 7782-49-2  | 0.872  | 0.050  | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Selenium      | 7782-49-2  | 0.250  | 0.010  | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |



Analytical Results

EO2404299-002

Sub-Matrix:Tissue

(Matrix: Biota)

Client sample ID: Plot 11 - 4 jars

Client sampling date / time: 25-May-2024

| Analyte   | CAS Number | Result  | LOR     | Unit  | Method/Lab  | Prep Date   | Analysis Date | QCLot   |
|-----------|------------|---------|---------|-------|-------------|-------------|---------------|---------|
| Metals    |            |         |         |       |             |             |               |         |
| Silver    | 7440-22-4  | 0.0099  | 0.0050  | mg/kg | E440.Ag/VA  | 18-Jul-2024 | 18-Jul-2024   | 1548954 |
| Silver    | 7440-22-4  | 0.0028  | 0.0010  | mg/kg | E440A.Ag/VA | 18-Jul-2024 | 18-Jul-2024   | 1548951 |
|           |            |         |         | wwt   |             |             |               |         |
| Sodium    | 7440-23-5  | 4200    | 20      | mg/kg | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Sodium    | 7440-23-5  | 1200    | 4.0     | mg/kg | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
|           |            |         |         | wwt   |             |             |               |         |
| Strontium | 7440-24-6  | 7.21    | 0.050   | mg/kg | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Strontium | 7440-24-6  | 2.07    | 0.010   | mg/kg | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
|           |            |         |         | wwt   |             |             |               |         |
| Tellurium | 13494-80-9 | <0.020  | 0.020   | mg/kg | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Tellurium | 13494-80-9 | <0.0040 | 0.0040  | mg/kg | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
|           |            |         |         | wwt   |             |             |               |         |
| Thallium  | 7440-28-0  | 0.0028  | 0.0020  | mg/kg | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Thallium  | 7440-28-0  | 0.00081 | 0.00040 | mg/kg | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
|           |            |         |         | wwt   |             |             |               |         |
| Tin       | 7440-31-5  | 0.26    | 0.10    | mg/kg | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Tin       | 7440-31-5  | 0.075   | 0.020   | mg/kg | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
|           |            |         |         | wwt   |             |             |               |         |
| Uranium   | 7440-61-1  | 0.0033  | 0.0020  | mg/kg | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Uranium   | 7440-61-1  | 0.00095 | 0.00040 | mg/kg | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
|           |            |         |         | wwt   |             |             |               |         |
| Vanadium  | 7440-62-2  | 0.10    | 0.10    | mg/kg | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Vanadium  | 7440-62-2  | 0.030   | 0.020   | mg/kg | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
|           |            |         |         | wwt   |             |             |               |         |
| Zinc      | 7440-66-6  | 89.3    | 0.50    | mg/kg | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Zinc      | 7440-66-6  | 25.6    | 0.10    | mg/kg | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
|           |            |         |         | wwt   |             |             |               |         |
| Zirconium | 7440-67-7  | <0.20   | 0.20    | mg/kg | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Zirconium | 7440-67-7  | <0.040  | 0.040   | mg/kg | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
|           |            |         |         | wwt   |             |             |               |         |

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

EO2404299-003

Sub-Matrix:Tissue

(Matrix: Biota)

Client sample ID: Plot 70 - 3 jars

Client sampling date / time: 25-May-2024

| Analyte        | CAS Number | Result | LOR   | Unit  | Method/Lab | Prep Date   | Analysis Date | QCLot   |
|----------------|------------|--------|-------|-------|------------|-------------|---------------|---------|
| Physical Tests |            |        |       |       |            |             |               |         |
| Moisture       | ----       | 70.8   | 0.50  | %     | E144/VA    | -           | 18-Jul-2024   | 1551440 |
| Metals         |            |        |       |       |            |             |               |         |
| Aluminum       | 7429-90-5  | 65.4   | 2.0   | mg/kg | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Aluminum       | 7429-90-5  | 19.1   | 0.40  | mg/kg | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
|                |            |        |       | wwt   |            |             |               |         |
| Antimony       | 7440-36-0  | <0.010 | 0.010 | mg/kg | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |



## Analytical Results

EO2404299-003

Sub-Matrix: Tissue

(Matrix: Biota)

Client sample ID: Plot 70 - 3 jars

Client sampling date / time: 25-May-2024

| Analyte       | CAS Number | Result  | LOR    | Unit         | Method/Lab | Prep Date   | Analysis Date | QCLot   |
|---------------|------------|---------|--------|--------------|------------|-------------|---------------|---------|
| <b>Metals</b> |            |         |        |              |            |             |               |         |
| Antimony      | 7440-36-0  | 0.0024  | 0.0020 | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Arsenic       | 7440-38-2  | 0.082   | 0.020  | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Arsenic       | 7440-38-2  | 0.0240  | 0.0040 | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Barium        | 7440-39-3  | 22.0    | 0.050  | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Barium        | 7440-39-3  | 6.41    | 0.010  | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Beryllium     | 7440-41-7  | <0.010  | 0.010  | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Beryllium     | 7440-41-7  | <0.0020 | 0.0020 | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Bismuth       | 7440-69-9  | <0.010  | 0.010  | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Bismuth       | 7440-69-9  | <0.0020 | 0.0020 | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Boron         | 7440-42-8  | 1.4     | 1.0    | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Boron         | 7440-42-8  | 0.42    | 0.20   | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Cadmium       | 7440-43-9  | 0.0393  | 0.0050 | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Cadmium       | 7440-43-9  | 0.0115  | 0.0010 | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Calcium       | 7440-70-2  | 24100   | 20     | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Calcium       | 7440-70-2  | 7030    | 4.0    | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Cesium        | 7440-46-2  | 0.0494  | 0.0050 | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Cesium        | 7440-46-2  | 0.0144  | 0.0010 | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Chromium      | 7440-47-3  | 0.145   | 0.050  | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Chromium      | 7440-47-3  | 0.042   | 0.010  | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Cobalt        | 7440-48-4  | 0.243   | 0.020  | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Cobalt        | 7440-48-4  | 0.0710  | 0.0040 | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Copper        | 7440-50-8  | 12.5    | 0.10   | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Copper        | 7440-50-8  | 3.65    | 0.020  | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Iron          | 7439-89-6  | 419     | 3.0    | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Iron          | 7439-89-6  | 122     | 0.60   | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Lead          | 7439-92-1  | 0.298   | 0.020  | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Lead          | 7439-92-1  | 0.0870  | 0.0040 | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Lithium       | 7439-93-2  | <0.50   | 0.50   | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Lithium       | 7439-93-2  | <0.10   | 0.10   | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Magnesium     | 7439-95-4  | 1090    | 2.0    | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Magnesium     | 7439-95-4  | 317     | 0.40   | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Manganese     | 7439-96-5  | 29.3    | 0.050  | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Manganese     | 7439-96-5  | 8.55    | 0.010  | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |





## Analytical Results

EO2404299-003

Sub-Matrix: Tissue

(Matrix: Biota)

Client sample ID: Plot 70 - 3 jars

Client sampling date / time: 25-May-2024

| Analyte       | CAS Number | Result  | LOR     | Unit         | Method/Lab  | Prep Date   | Analysis Date | QC/Lot  |
|---------------|------------|---------|---------|--------------|-------------|-------------|---------------|---------|
| <b>Metals</b> |            |         |         |              |             |             |               |         |
| Mercury       | 7439-97-6  | 0.293   | 0.0051  | mg/kg        | E510/VA     | 18-Jul-2024 | 20-Jul-2024   | 1548953 |
| Mercury       | 7439-97-6  | 0.0856  | 0.0015  | mg/kg<br>wwt | E510A/VA    | 18-Jul-2024 | 20-Jul-2024   | 1548952 |
| Molybdenum    | 7439-98-7  | 0.555   | 0.020   | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Molybdenum    | 7439-98-7  | 0.162   | 0.0040  | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Nickel        | 7440-02-0  | 0.42    | 0.20    | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Nickel        | 7440-02-0  | 0.122   | 0.040   | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Phosphorus    | 7723-14-0  | 18800   | 10      | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Phosphorus    | 7723-14-0  | 5500    | 2.0     | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Potassium     | 7440-09-7  | 9980    | 20      | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Potassium     | 7440-09-7  | 2910    | 4.0     | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Rubidium      | 7440-17-7  | 25.8    | 0.050   | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Rubidium      | 7440-17-7  | 7.54    | 0.010   | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Selenium      | 7782-49-2  | 0.696   | 0.050   | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Selenium      | 7782-49-2  | 0.203   | 0.010   | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Silver        | 7440-22-4  | 0.0088  | 0.0050  | mg/kg        | E440.Ag/VA  | 18-Jul-2024 | 18-Jul-2024   | 1548954 |
| Silver        | 7440-22-4  | 0.0026  | 0.0010  | mg/kg<br>wwt | E440A.Ag/VA | 18-Jul-2024 | 18-Jul-2024   | 1548951 |
| Sodium        | 7440-23-5  | 4580    | 20      | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Sodium        | 7440-23-5  | 1340    | 4.0     | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Strontium     | 7440-24-6  | 13.2    | 0.050   | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Strontium     | 7440-24-6  | 3.86    | 0.010   | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Tellurium     | 13494-80-9 | <0.020  | 0.020   | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Tellurium     | 13494-80-9 | <0.0040 | 0.0040  | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Thallium      | 7440-28-0  | 0.0051  | 0.0020  | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Thallium      | 7440-28-0  | 0.00150 | 0.00040 | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Tin           | 7440-31-5  | 0.24    | 0.10    | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Tin           | 7440-31-5  | 0.071   | 0.020   | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Uranium       | 7440-61-1  | 0.0051  | 0.0020  | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Uranium       | 7440-61-1  | 0.00148 | 0.00040 | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Vanadium      | 7440-62-2  | 0.17    | 0.10    | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Vanadium      | 7440-62-2  | 0.050   | 0.020   | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Zinc          | 7440-66-6  | 81.7    | 0.50    | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Zinc          | 7440-66-6  | 23.8    | 0.10    | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Zirconium     | 7440-67-7  | <0.20   | 0.20    | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |



Analytical Results

EO2404299-003

Sub-Matrix:Tissue

(Matrix: Biota)

Client sample ID: Plot 70 - 3 jars

Client sampling date / time: 25-May-2024

| Analyte   | CAS Number | Result | LOR   | Unit      | Method/Lab | Prep Date   | Analysis Date | QCLot   |
|-----------|------------|--------|-------|-----------|------------|-------------|---------------|---------|
| Metals    |            |        |       |           |            |             |               |         |
| Zirconium | 7440-67-7  | <0.040 | 0.040 | mg/kg wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

EO2404299-004

Sub-Matrix:Tissue

(Matrix: Biota)

Client sample ID: Plot 71 - 5 jars

Client sampling date / time: 25-May-2024

| Analyte        | CAS Number | Result  | LOR    | Unit      | Method/Lab | Prep Date   | Analysis Date | QCLot   |
|----------------|------------|---------|--------|-----------|------------|-------------|---------------|---------|
| Physical Tests |            |         |        |           |            |             |               |         |
| Moisture       | ----       | 71.4    | 0.50   | %         | E144/VA    | -           | 18-Jul-2024   | 1551440 |
| Metals         |            |         |        |           |            |             |               |         |
| Aluminum       | 7429-90-5  | 25.4    | 2.0    | mg/kg     | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Aluminum       | 7429-90-5  | 7.27    | 0.40   | mg/kg wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Antimony       | 7440-36-0  | <0.010  | 0.010  | mg/kg     | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Antimony       | 7440-36-0  | <0.0020 | 0.0020 | mg/kg wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Arsenic        | 7440-38-2  | 0.062   | 0.020  | mg/kg     | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Arsenic        | 7440-38-2  | 0.0177  | 0.0040 | mg/kg wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Barium         | 7440-39-3  | 36.8    | 0.050  | mg/kg     | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Barium         | 7440-39-3  | 10.5    | 0.010  | mg/kg wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Beryllium      | 7440-41-7  | <0.010  | 0.010  | mg/kg     | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Beryllium      | 7440-41-7  | <0.0020 | 0.0020 | mg/kg wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Bismuth        | 7440-69-9  | <0.010  | 0.010  | mg/kg     | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Bismuth        | 7440-69-9  | <0.0020 | 0.0020 | mg/kg wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Boron          | 7440-42-8  | 1.4     | 1.0    | mg/kg     | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Boron          | 7440-42-8  | 0.41    | 0.20   | mg/kg wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Cadmium        | 7440-43-9  | 0.203   | 0.0050 | mg/kg     | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Cadmium        | 7440-43-9  | 0.0582  | 0.0010 | mg/kg wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Calcium        | 7440-70-2  | 36100   | 20     | mg/kg     | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Calcium        | 7440-70-2  | 10300   | 4.0    | mg/kg wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Cesium         | 7440-46-2  | 0.0366  | 0.0050 | mg/kg     | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Cesium         | 7440-46-2  | 0.0105  | 0.0010 | mg/kg wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Chromium       | 7440-47-3  | 0.086   | 0.050  | mg/kg     | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Chromium       | 7440-47-3  | 0.024   | 0.010  | mg/kg wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |



Analytical Results

EO2404299-004

Sub-Matrix:Tissue

(Matrix: Biota)

Client sample ID: Plot 71 - 5 jars

Client sampling date / time: 25-May-2024

| Analyte    | CAS Number | Result  | LOR    | Unit         | Method/Lab  | Prep Date   | Analysis Date | QC/Lot  |
|------------|------------|---------|--------|--------------|-------------|-------------|---------------|---------|
| Metals     |            |         |        |              |             |             |               |         |
| Cobalt     | 7440-48-4  | 0.243   | 0.020  | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Cobalt     | 7440-48-4  | 0.0695  | 0.0040 | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Copper     | 7440-50-8  | 14.0    | 0.10   | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Copper     | 7440-50-8  | 4.02    | 0.020  | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Iron       | 7439-89-6  | 332     | 3.0    | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Iron       | 7439-89-6  | 95.0    | 0.60   | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Lead       | 7439-92-1  | 0.201   | 0.020  | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Lead       | 7439-92-1  | 0.0575  | 0.0040 | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Lithium    | 7439-93-2  | <0.50   | 0.50   | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Lithium    | 7439-93-2  | <0.10   | 0.10   | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Magnesium  | 7439-95-4  | 1320    | 2.0    | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Magnesium  | 7439-95-4  | 378     | 0.40   | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Manganese  | 7439-96-5  | 44.2    | 0.050  | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Manganese  | 7439-96-5  | 12.6    | 0.010  | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Mercury    | 7439-97-6  | 0.260   | 0.0052 | mg/kg        | E510/VA     | 18-Jul-2024 | 20-Jul-2024   | 1548953 |
| Mercury    | 7439-97-6  | 0.0744  | 0.0015 | mg/kg<br>wwt | E510A/VA    | 18-Jul-2024 | 20-Jul-2024   | 1548952 |
| Molybdenum | 7439-98-7  | 0.620   | 0.020  | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Molybdenum | 7439-98-7  | 0.178   | 0.0040 | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Nickel     | 7440-02-0  | 0.44    | 0.20   | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Nickel     | 7440-02-0  | 0.126   | 0.040  | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Phosphorus | 7723-14-0  | 25400   | 10     | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Phosphorus | 7723-14-0  | 7260    | 2.0    | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Potassium  | 7440-09-7  | 10700   | 20     | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Potassium  | 7440-09-7  | 3050    | 4.0    | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Rubidium   | 7440-17-7  | 14.1    | 0.050  | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Rubidium   | 7440-17-7  | 4.04    | 0.010  | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Selenium   | 7782-49-2  | 0.887   | 0.050  | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Selenium   | 7782-49-2  | 0.254   | 0.010  | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Silver     | 7440-22-4  | <0.0050 | 0.0050 | mg/kg        | E440.Ag/VA  | 18-Jul-2024 | 18-Jul-2024   | 1548954 |
| Silver     | 7440-22-4  | 0.0012  | 0.0010 | mg/kg<br>wwt | E440A.Ag/VA | 18-Jul-2024 | 18-Jul-2024   | 1548951 |
| Sodium     | 7440-23-5  | 5110    | 20     | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Sodium     | 7440-23-5  | 1460    | 4.0    | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Strontium  | 7440-24-6  | 20.9    | 0.050  | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |



Analytical Results

EO2404299-004

Sub-Matrix:Tissue

(Matrix: Biota)

Client sample ID: Plot 71 - 5 jars

Client sampling date / time: 25-May-2024

| Analyte   | CAS Number | Result  | LOR     | Unit      | Method/Lab | Prep Date   | Analysis Date | QCLot   |
|-----------|------------|---------|---------|-----------|------------|-------------|---------------|---------|
| Metals    |            |         |         |           |            |             |               |         |
| Strontium | 7440-24-6  | 5.97    | 0.010   | mg/kg wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Tellurium | 13494-80-9 | <0.020  | 0.020   | mg/kg     | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Tellurium | 13494-80-9 | <0.0040 | 0.0040  | mg/kg wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Thallium  | 7440-28-0  | 0.0025  | 0.0020  | mg/kg     | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Thallium  | 7440-28-0  | 0.00072 | 0.00040 | mg/kg wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Tin       | 7440-31-5  | 0.17    | 0.10    | mg/kg     | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Tin       | 7440-31-5  | 0.049   | 0.020   | mg/kg wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Uranium   | 7440-61-1  | 0.0036  | 0.0020  | mg/kg     | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Uranium   | 7440-61-1  | 0.00102 | 0.00040 | mg/kg wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Vanadium  | 7440-62-2  | <0.10   | 0.10    | mg/kg     | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Vanadium  | 7440-62-2  | 0.021   | 0.020   | mg/kg wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Zinc      | 7440-66-6  | 90.0    | 0.50    | mg/kg     | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Zinc      | 7440-66-6  | 25.8    | 0.10    | mg/kg wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Zirconium | 7440-67-7  | <0.20   | 0.20    | mg/kg     | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Zirconium | 7440-67-7  | <0.040  | 0.040   | mg/kg wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

EO2404299-005

Sub-Matrix:Tissue

(Matrix: Biota)

Client sample ID: Plot 109 - 5 jars

Client sampling date / time: 25-May-2024

| Analyte        | CAS Number | Result | LOR    | Unit      | Method/Lab | Prep Date   | Analysis Date | QCLot   |
|----------------|------------|--------|--------|-----------|------------|-------------|---------------|---------|
| Physical Tests |            |        |        |           |            |             |               |         |
| Moisture       | ----       | 70.6   | 0.50   | %         | E144/VA    | -           | 18-Jul-2024   | 1551440 |
| Metals         |            |        |        |           |            |             |               |         |
| Aluminum       | 7429-90-5  | 23.2   | 2.0    | mg/kg     | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Aluminum       | 7429-90-5  | 6.81   | 0.40   | mg/kg wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Antimony       | 7440-36-0  | <0.010 | 0.010  | mg/kg     | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Antimony       | 7440-36-0  | 0.0028 | 0.0020 | mg/kg wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Arsenic        | 7440-38-2  | 0.092  | 0.020  | mg/kg     | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Arsenic        | 7440-38-2  | 0.0270 | 0.0040 | mg/kg wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Barium         | 7440-39-3  | 28.9   | 0.050  | mg/kg     | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Barium         | 7440-39-3  | 8.50   | 0.010  | mg/kg wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |



Analytical Results

EO2404299-005

Sub-Matrix:Tissue

(Matrix: Biota)

Client sample ID: Plot 109 - 5 jars

Client sampling date / time: 25-May-2024

| Analyte    | CAS Number | Result  | LOR    | Unit         | Method/Lab | Prep Date   | Analysis Date | QC/Lot  |
|------------|------------|---------|--------|--------------|------------|-------------|---------------|---------|
| Metals     |            |         |        |              |            |             |               |         |
| Beryllium  | 7440-41-7  | <0.010  | 0.010  | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Beryllium  | 7440-41-7  | <0.0020 | 0.0020 | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Bismuth    | 7440-69-9  | 0.023   | 0.010  | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Bismuth    | 7440-69-9  | 0.0067  | 0.0020 | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Boron      | 7440-42-8  | 1.4     | 1.0    | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Boron      | 7440-42-8  | 0.41    | 0.20   | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Cadmium    | 7440-43-9  | 0.0786  | 0.0050 | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Cadmium    | 7440-43-9  | 0.0231  | 0.0010 | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Calcium    | 7440-70-2  | 31100   | 20     | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Calcium    | 7440-70-2  | 9140    | 4.0    | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Cesium     | 7440-46-2  | 0.149   | 0.0050 | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Cesium     | 7440-46-2  | 0.0439  | 0.0010 | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Chromium   | 7440-47-3  | 0.091   | 0.050  | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Chromium   | 7440-47-3  | 0.027   | 0.010  | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Cobalt     | 7440-48-4  | 0.180   | 0.020  | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Cobalt     | 7440-48-4  | 0.0530  | 0.0040 | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Copper     | 7440-50-8  | 17.3    | 0.10   | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Copper     | 7440-50-8  | 5.10    | 0.020  | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Iron       | 7439-89-6  | 350     | 3.0    | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Iron       | 7439-89-6  | 103     | 0.60   | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Lead       | 7439-92-1  | 0.778   | 0.020  | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Lead       | 7439-92-1  | 0.229   | 0.0040 | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Lithium    | 7439-93-2  | <0.50   | 0.50   | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Lithium    | 7439-93-2  | <0.10   | 0.10   | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Magnesium  | 7439-95-4  | 1350    | 2.0    | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Magnesium  | 7439-95-4  | 397     | 0.40   | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Manganese  | 7439-96-5  | 30.6    | 0.050  | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Manganese  | 7439-96-5  | 9.00    | 0.010  | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Mercury    | 7439-97-6  | 0.214   | 0.0056 | mg/kg        | E510/VA    | 18-Jul-2024 | 20-Jul-2024   | 1548953 |
| Mercury    | 7439-97-6  | 0.0631  | 0.0016 | mg/kg<br>wwt | E510A/VA   | 18-Jul-2024 | 20-Jul-2024   | 1548952 |
| Molybdenum | 7439-98-7  | 0.568   | 0.020  | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Molybdenum | 7439-98-7  | 0.167   | 0.0040 | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Nickel     | 7440-02-0  | 0.43    | 0.20   | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |



## Analytical Results

EO2404299-005

Sub-Matrix: Tissue

(Matrix: Biota)

Client sample ID: Plot 109 - 5 jars

Client sampling date / time: 25-May-2024

| Analyte       | CAS Number | Result  | LOR     | Unit         | Method/Lab  | Prep Date   | Analysis Date | QCLot   |
|---------------|------------|---------|---------|--------------|-------------|-------------|---------------|---------|
| <b>Metals</b> |            |         |         |              |             |             |               |         |
| Nickel        | 7440-02-0  | 0.128   | 0.040   | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Phosphorus    | 7723-14-0  | 23500   | 10      | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Phosphorus    | 7723-14-0  | 6920    | 2.0     | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Potassium     | 7440-09-7  | 11100   | 20      | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Potassium     | 7440-09-7  | 3270    | 4.0     | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Rubidium      | 7440-17-7  | 32.8    | 0.050   | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Rubidium      | 7440-17-7  | 9.66    | 0.010   | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Selenium      | 7782-49-2  | 0.805   | 0.050   | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Selenium      | 7782-49-2  | 0.237   | 0.010   | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Silver        | 7440-22-4  | 0.0072  | 0.0050  | mg/kg        | E440.Ag/VA  | 18-Jul-2024 | 18-Jul-2024   | 1548954 |
| Silver        | 7440-22-4  | 0.0021  | 0.0010  | mg/kg<br>wwt | E440A.Ag/VA | 18-Jul-2024 | 18-Jul-2024   | 1548951 |
| Sodium        | 7440-23-5  | 4920    | 20      | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Sodium        | 7440-23-5  | 1450    | 4.0     | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Strontium     | 7440-24-6  | 20.9    | 0.050   | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Strontium     | 7440-24-6  | 6.15    | 0.010   | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Tellurium     | 13494-80-9 | <0.020  | 0.020   | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Tellurium     | 13494-80-9 | <0.0040 | 0.0040  | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Thallium      | 7440-28-0  | 0.0030  | 0.0020  | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Thallium      | 7440-28-0  | 0.00087 | 0.00040 | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Tin           | 7440-31-5  | 0.11    | 0.10    | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Tin           | 7440-31-5  | 0.034   | 0.020   | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Uranium       | 7440-61-1  | <0.0020 | 0.0020  | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Uranium       | 7440-61-1  | 0.00057 | 0.00040 | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Vanadium      | 7440-62-2  | <0.10   | 0.10    | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Vanadium      | 7440-62-2  | <0.020  | 0.020   | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Zinc          | 7440-66-6  | 97.1    | 0.50    | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Zinc          | 7440-66-6  | 28.6    | 0.10    | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Zirconium     | 7440-67-7  | <0.20   | 0.20    | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Zirconium     | 7440-67-7  | <0.040  | 0.040   | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.



Analytical Results

EO2404299-006

Sub-Matrix:Tissue

(Matrix: Biota)

Client sample ID: Plot 110 - 4 jars

Client sampling date / time: 25-May-2024

| Analyte        | CAS Number | Result  | LOR    | Unit      | Method/Lab | Prep Date   | Analysis Date | QC/Lot  |
|----------------|------------|---------|--------|-----------|------------|-------------|---------------|---------|
| Physical Tests |            |         |        |           |            |             |               |         |
| Moisture       | ----       | 71.2    | 0.50   | %         | E144/VA    | -           | 18-Jul-2024   | 1551440 |
| Metals         |            |         |        |           |            |             |               |         |
| Aluminum       | 7429-90-5  | 34.9    | 2.0    | mg/kg     | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Aluminum       | 7429-90-5  | 10.0    | 0.40   | mg/kg wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Antimony       | 7440-36-0  | <0.010  | 0.010  | mg/kg     | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Antimony       | 7440-36-0  | 0.0022  | 0.0020 | mg/kg wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Arsenic        | 7440-38-2  | 0.085   | 0.020  | mg/kg     | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Arsenic        | 7440-38-2  | 0.0246  | 0.0040 | mg/kg wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Barium         | 7440-39-3  | 26.7    | 0.050  | mg/kg     | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Barium         | 7440-39-3  | 7.68    | 0.010  | mg/kg wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Beryllium      | 7440-41-7  | <0.010  | 0.010  | mg/kg     | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Beryllium      | 7440-41-7  | <0.0020 | 0.0020 | mg/kg wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Bismuth        | 7440-69-9  | 0.023   | 0.010  | mg/kg     | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Bismuth        | 7440-69-9  | 0.0067  | 0.0020 | mg/kg wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Boron          | 7440-42-8  | 1.3     | 1.0    | mg/kg     | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Boron          | 7440-42-8  | 0.36    | 0.20   | mg/kg wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Cadmium        | 7440-43-9  | 0.0581  | 0.0050 | mg/kg     | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Cadmium        | 7440-43-9  | 0.0167  | 0.0010 | mg/kg wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Calcium        | 7440-70-2  | 33500   | 20     | mg/kg     | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Calcium        | 7440-70-2  | 9640    | 4.0    | mg/kg wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Cesium         | 7440-46-2  | 0.178   | 0.0050 | mg/kg     | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Cesium         | 7440-46-2  | 0.0514  | 0.0010 | mg/kg wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Chromium       | 7440-47-3  | 0.146   | 0.050  | mg/kg     | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Chromium       | 7440-47-3  | 0.042   | 0.010  | mg/kg wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Cobalt         | 7440-48-4  | 0.251   | 0.020  | mg/kg     | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Cobalt         | 7440-48-4  | 0.0724  | 0.0040 | mg/kg wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Copper         | 7440-50-8  | 9.48    | 0.10   | mg/kg     | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Copper         | 7440-50-8  | 2.73    | 0.020  | mg/kg wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Iron           | 7439-89-6  | 337     | 3.0    | mg/kg     | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Iron           | 7439-89-6  | 97.0    | 0.60   | mg/kg wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Lead           | 7439-92-1  | 0.421   | 0.020  | mg/kg     | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Lead           | 7439-92-1  | 0.121   | 0.0040 | mg/kg wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Lithium        | 7439-93-2  | <0.50   | 0.50   | mg/kg     | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Lithium        | 7439-93-2  | <0.10   | 0.10   | mg/kg wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |





Analytical Results

EO2404299-006

Sub-Matrix:Tissue

(Matrix: Biota)

Client sample ID: Plot 110 - 4 jars

Client sampling date / time: 25-May-2024

| Analyte    | CAS Number | Result  | LOR     | Unit         | Method/Lab  | Prep Date   | Analysis Date | QC/Lot  |
|------------|------------|---------|---------|--------------|-------------|-------------|---------------|---------|
| Metals     |            |         |         |              |             |             |               |         |
| Magnesium  | 7439-95-4  | 1460    | 2.0     | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Magnesium  | 7439-95-4  | 419     | 0.40    | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Manganese  | 7439-96-5  | 54.3    | 0.050   | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Manganese  | 7439-96-5  | 15.6    | 0.010   | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Mercury    | 7439-97-6  | 0.280   | 0.0051  | mg/kg        | E510/VA     | 18-Jul-2024 | 20-Jul-2024   | 1548953 |
| Mercury    | 7439-97-6  | 0.0808  | 0.0015  | mg/kg<br>wwt | E510A/VA    | 18-Jul-2024 | 20-Jul-2024   | 1548952 |
| Molybdenum | 7439-98-7  | 0.485   | 0.020   | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Molybdenum | 7439-98-7  | 0.140   | 0.0040  | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Nickel     | 7440-02-0  | 0.46    | 0.20    | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Nickel     | 7440-02-0  | 0.133   | 0.040   | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Phosphorus | 7723-14-0  | 25300   | 10      | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Phosphorus | 7723-14-0  | 7290    | 2.0     | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Potassium  | 7440-09-7  | 11200   | 20      | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Potassium  | 7440-09-7  | 3220    | 4.0     | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Rubidium   | 7440-17-7  | 38.0    | 0.050   | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Rubidium   | 7440-17-7  | 10.9    | 0.010   | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Selenium   | 7782-49-2  | 0.759   | 0.050   | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Selenium   | 7782-49-2  | 0.219   | 0.010   | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Silver     | 7440-22-4  | 0.0078  | 0.0050  | mg/kg        | E440.Ag/VA  | 18-Jul-2024 | 18-Jul-2024   | 1548954 |
| Silver     | 7440-22-4  | 0.0022  | 0.0010  | mg/kg<br>wwt | E440A.Ag/VA | 18-Jul-2024 | 18-Jul-2024   | 1548951 |
| Sodium     | 7440-23-5  | 4640    | 20      | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Sodium     | 7440-23-5  | 1340    | 4.0     | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Strontium  | 7440-24-6  | 15.1    | 0.050   | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Strontium  | 7440-24-6  | 4.36    | 0.010   | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Tellurium  | 13494-80-9 | <0.020  | 0.020   | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Tellurium  | 13494-80-9 | <0.0040 | 0.0040  | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Thallium   | 7440-28-0  | 0.0044  | 0.0020  | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Thallium   | 7440-28-0  | 0.00126 | 0.00040 | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Tin        | 7440-31-5  | 0.26    | 0.10    | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Tin        | 7440-31-5  | 0.076   | 0.020   | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Uranium    | 7440-61-1  | 0.0033  | 0.0020  | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Uranium    | 7440-61-1  | 0.00096 | 0.00040 | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Vanadium   | 7440-62-2  | 0.11    | 0.10    | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |





Analytical Results

EO2404299-006

Sub-Matrix: Tissue

(Matrix: Biota)

Client sample ID: Plot 110 - 4 jars

Client sampling date / time: 25-May-2024

| Analyte   | CAS Number | Result | LOR   | Unit      | Method/Lab | Prep Date   | Analysis Date | QCLot   |
|-----------|------------|--------|-------|-----------|------------|-------------|---------------|---------|
| Metals    |            |        |       |           |            |             |               |         |
| Vanadium  | 7440-62-2  | 0.032  | 0.020 | mg/kg wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Zinc      | 7440-66-6  | 104    | 0.50  | mg/kg     | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Zinc      | 7440-66-6  | 29.9   | 0.10  | mg/kg wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Zirconium | 7440-67-7  | <0.20  | 0.20  | mg/kg     | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Zirconium | 7440-67-7  | <0.040 | 0.040 | mg/kg wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

EO2404299-007

Sub-Matrix: Tissue

(Matrix: Biota)

Client sample ID: Plot 114 - 4 jars

Client sampling date / time: 25-May-2024

| Analyte        | CAS Number | Result  | LOR    | Unit      | Method/Lab | Prep Date   | Analysis Date | QCLot   |
|----------------|------------|---------|--------|-----------|------------|-------------|---------------|---------|
| Physical Tests |            |         |        |           |            |             |               |         |
| Moisture       | ----       | 71.1    | 0.50   | %         | E144/VA    | -           | 18-Jul-2024   | 1551440 |
| Metals         |            |         |        |           |            |             |               |         |
| Aluminum       | 7429-90-5  | 29.5    | 2.0    | mg/kg     | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Aluminum       | 7429-90-5  | 8.53    | 0.40   | mg/kg wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Antimony       | 7440-36-0  | <0.010  | 0.010  | mg/kg     | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Antimony       | 7440-36-0  | 0.0029  | 0.0020 | mg/kg wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Arsenic        | 7440-38-2  | 0.084   | 0.020  | mg/kg     | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Arsenic        | 7440-38-2  | 0.0243  | 0.0040 | mg/kg wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Barium         | 7440-39-3  | 19.6    | 0.050  | mg/kg     | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Barium         | 7440-39-3  | 5.68    | 0.010  | mg/kg wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Beryllium      | 7440-41-7  | <0.010  | 0.010  | mg/kg     | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Beryllium      | 7440-41-7  | <0.0020 | 0.0020 | mg/kg wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Bismuth        | 7440-69-9  | 0.017   | 0.010  | mg/kg     | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Bismuth        | 7440-69-9  | 0.0050  | 0.0020 | mg/kg wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Boron          | 7440-42-8  | 1.2     | 1.0    | mg/kg     | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Boron          | 7440-42-8  | 0.36    | 0.20   | mg/kg wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Cadmium        | 7440-43-9  | 0.146   | 0.0050 | mg/kg     | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Cadmium        | 7440-43-9  | 0.0423  | 0.0010 | mg/kg wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Calcium        | 7440-70-2  | 24600   | 20     | mg/kg     | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Calcium        | 7440-70-2  | 7120    | 4.0    | mg/kg wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |



Analytical Results

EO2404299-007

Sub-Matrix:Tissue

(Matrix: Biota)

Client sample ID: Plot 114 - 4 jars

Client sampling date / time: 25-May-2024

| Analyte    | CAS Number | Result | LOR    | Unit         | Method/Lab | Prep Date   | Analysis Date | QC/Lot  |
|------------|------------|--------|--------|--------------|------------|-------------|---------------|---------|
| Metals     |            |        |        |              |            |             |               |         |
| Cesium     | 7440-46-2  | 0.352  | 0.0050 | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Cesium     | 7440-46-2  | 0.102  | 0.0010 | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Chromium   | 7440-47-3  | 0.136  | 0.050  | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Chromium   | 7440-47-3  | 0.039  | 0.010  | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Cobalt     | 7440-48-4  | 0.197  | 0.020  | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Cobalt     | 7440-48-4  | 0.0571 | 0.0040 | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Copper     | 7440-50-8  | 11.4   | 0.10   | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Copper     | 7440-50-8  | 3.30   | 0.020  | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Iron       | 7439-89-6  | 295    | 3.0    | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Iron       | 7439-89-6  | 85.2   | 0.60   | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Lead       | 7439-92-1  | 0.535  | 0.020  | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Lead       | 7439-92-1  | 0.154  | 0.0040 | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Lithium    | 7439-93-2  | <0.50  | 0.50   | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Lithium    | 7439-93-2  | <0.10  | 0.10   | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Magnesium  | 7439-95-4  | 1280   | 2.0    | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Magnesium  | 7439-95-4  | 371    | 0.40   | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Manganese  | 7439-96-5  | 30.5   | 0.050  | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Manganese  | 7439-96-5  | 8.81   | 0.010  | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Mercury    | 7439-97-6  | 0.244  | 0.0058 | mg/kg        | E510/VA    | 18-Jul-2024 | 20-Jul-2024   | 1548953 |
| Mercury    | 7439-97-6  | 0.0704 | 0.0017 | mg/kg<br>wwt | E510A/VA   | 18-Jul-2024 | 20-Jul-2024   | 1548952 |
| Molybdenum | 7439-98-7  | 0.533  | 0.020  | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Molybdenum | 7439-98-7  | 0.154  | 0.0040 | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Nickel     | 7440-02-0  | 0.46   | 0.20   | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Nickel     | 7440-02-0  | 0.134  | 0.040  | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Phosphorus | 7723-14-0  | 20000  | 10     | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Phosphorus | 7723-14-0  | 5800   | 2.0    | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Potassium  | 7440-09-7  | 10900  | 20     | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Potassium  | 7440-09-7  | 3150   | 4.0    | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Rubidium   | 7440-17-7  | 35.1   | 0.050  | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Rubidium   | 7440-17-7  | 10.2   | 0.010  | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Selenium   | 7782-49-2  | 0.847  | 0.050  | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Selenium   | 7782-49-2  | 0.245  | 0.010  | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Silver     | 7440-22-4  | 0.0116 | 0.0050 | mg/kg        | E440.Ag/VA | 18-Jul-2024 | 18-Jul-2024   | 1548954 |



Analytical Results

EO2404299-007

Sub-Matrix: Tissue

(Matrix: Biota)

Client sample ID: Plot 114 - 4 jars

Client sampling date / time: 25-May-2024

| Analyte   | CAS Number | Result  | LOR     | Unit         | Method/Lab  | Prep Date   | Analysis Date | QCLot   |
|-----------|------------|---------|---------|--------------|-------------|-------------|---------------|---------|
| Metals    |            |         |         |              |             |             |               |         |
| Silver    | 7440-22-4  | 0.0033  | 0.0010  | mg/kg<br>wwt | E440A.Ag/VA | 18-Jul-2024 | 18-Jul-2024   | 1548951 |
| Sodium    | 7440-23-5  | 4650    | 20      | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Sodium    | 7440-23-5  | 1340    | 4.0     | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Strontium | 7440-24-6  | 10.1    | 0.050   | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Strontium | 7440-24-6  | 2.92    | 0.010   | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Tellurium | 13494-80-9 | <0.020  | 0.020   | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Tellurium | 13494-80-9 | <0.0040 | 0.0040  | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Thallium  | 7440-28-0  | 0.0041  | 0.0020  | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Thallium  | 7440-28-0  | 0.00119 | 0.00040 | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Tin       | 7440-31-5  | 0.24    | 0.10    | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Tin       | 7440-31-5  | 0.069   | 0.020   | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Uranium   | 7440-61-1  | 0.0032  | 0.0020  | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Uranium   | 7440-61-1  | 0.00094 | 0.00040 | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Vanadium  | 7440-62-2  | <0.10   | 0.10    | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Vanadium  | 7440-62-2  | 0.022   | 0.020   | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Zinc      | 7440-66-6  | 90.2    | 0.50    | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Zinc      | 7440-66-6  | 26.1    | 0.10    | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Zirconium | 7440-67-7  | <0.20   | 0.20    | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Zirconium | 7440-67-7  | <0.040  | 0.040   | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

EO2404299-008

Sub-Matrix: Tissue

(Matrix: Biota)

Client sample ID: Plot 117 - 1 jar

Client sampling date / time: 25-May-2024

| Analyte        | CAS Number | Result  | LOR    | Unit         | Method/Lab | Prep Date   | Analysis Date | QCLot   |
|----------------|------------|---------|--------|--------------|------------|-------------|---------------|---------|
| Physical Tests |            |         |        |              |            |             |               |         |
| Moisture       | ----       | 70.8    | 0.50   | %            | E144/VA    | -           | 18-Jul-2024   | 1551440 |
| Metals         |            |         |        |              |            |             |               |         |
| Aluminum       | 7429-90-5  | 33.4    | 2.0    | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Aluminum       | 7429-90-5  | 9.77    | 0.40   | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Antimony       | 7440-36-0  | <0.010  | 0.010  | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Antimony       | 7440-36-0  | <0.0020 | 0.0020 | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |



Analytical Results

EO2404299-008

Sub-Matrix:Tissue

(Matrix: Biota)

Client sample ID: Plot 117 - 1 jar

Client sampling date / time: 25-May-2024

| Analyte   | CAS Number | Result  | LOR    | Unit         | Method/Lab | Prep Date   | Analysis Date | QC/Lot  |
|-----------|------------|---------|--------|--------------|------------|-------------|---------------|---------|
| Metals    |            |         |        |              |            |             |               |         |
| Arsenic   | 7440-38-2  | 0.051   | 0.020  | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Arsenic   | 7440-38-2  | 0.0149  | 0.0040 | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Barium    | 7440-39-3  | 32.2    | 0.050  | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Barium    | 7440-39-3  | 9.42    | 0.010  | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Beryllium | 7440-41-7  | <0.010  | 0.010  | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Beryllium | 7440-41-7  | <0.0020 | 0.0020 | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Bismuth   | 7440-69-9  | <0.010  | 0.010  | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Bismuth   | 7440-69-9  | <0.0020 | 0.0020 | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Boron     | 7440-42-8  | 1.8     | 1.0    | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Boron     | 7440-42-8  | 0.54    | 0.20   | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Cadmium   | 7440-43-9  | 0.275   | 0.0050 | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Cadmium   | 7440-43-9  | 0.0805  | 0.0010 | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Calcium   | 7440-70-2  | 24800   | 20     | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Calcium   | 7440-70-2  | 7270    | 4.0    | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Cesium    | 7440-46-2  | 0.0448  | 0.0050 | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Cesium    | 7440-46-2  | 0.0131  | 0.0010 | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Chromium  | 7440-47-3  | 0.180   | 0.050  | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Chromium  | 7440-47-3  | 0.053   | 0.010  | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Cobalt    | 7440-48-4  | 0.145   | 0.020  | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Cobalt    | 7440-48-4  | 0.0424  | 0.0040 | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Copper    | 7440-50-8  | 20.3    | 0.10   | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Copper    | 7440-50-8  | 5.93    | 0.020  | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Iron      | 7439-89-6  | 420     | 3.0    | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Iron      | 7439-89-6  | 123     | 0.60   | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Lead      | 7439-92-1  | 0.262   | 0.020  | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Lead      | 7439-92-1  | 0.0766  | 0.0040 | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Lithium   | 7439-93-2  | <0.50   | 0.50   | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Lithium   | 7439-93-2  | <0.10   | 0.10   | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Magnesium | 7439-95-4  | 1340    | 2.0    | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Magnesium | 7439-95-4  | 392     | 0.40   | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Manganese | 7439-96-5  | 23.4    | 0.050  | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Manganese | 7439-96-5  | 6.84    | 0.010  | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Mercury   | 7439-97-6  | 0.125   | 0.0057 | mg/kg        | E510/VA    | 18-Jul-2024 | 20-Jul-2024   | 1548953 |



## Analytical Results

EO2404299-008

Sub-Matrix: Tissue

(Matrix: Biota)

Client sample ID: Plot 117 - 1 jar

Client sampling date / time: 25-May-2024

| Analyte       | CAS Number | Result  | LOR     | Unit         | Method/Lab  | Prep Date   | Analysis Date | QCLot   |
|---------------|------------|---------|---------|--------------|-------------|-------------|---------------|---------|
| <b>Metals</b> |            |         |         |              |             |             |               |         |
| Mercury       | 7439-97-6  | 0.0364  | 0.0017  | mg/kg<br>wwt | E510A/VA    | 18-Jul-2024 | 20-Jul-2024   | 1548952 |
| Molybdenum    | 7439-98-7  | 0.492   | 0.020   | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Molybdenum    | 7439-98-7  | 0.144   | 0.0040  | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Nickel        | 7440-02-0  | 0.47    | 0.20    | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Nickel        | 7440-02-0  | 0.138   | 0.040   | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Phosphorus    | 7723-14-0  | 21300   | 10      | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Phosphorus    | 7723-14-0  | 6230    | 2.0     | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Potassium     | 7440-09-7  | 11100   | 20      | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Potassium     | 7440-09-7  | 3250    | 4.0     | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Rubidium      | 7440-17-7  | 31.7    | 0.050   | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Rubidium      | 7440-17-7  | 9.27    | 0.010   | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Selenium      | 7782-49-2  | 0.696   | 0.050   | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Selenium      | 7782-49-2  | 0.204   | 0.010   | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Silver        | 7440-22-4  | <0.0050 | 0.0050  | mg/kg        | E440.Ag/VA  | 18-Jul-2024 | 18-Jul-2024   | 1548954 |
| Silver        | 7440-22-4  | <0.0010 | 0.0010  | mg/kg<br>wwt | E440A.Ag/VA | 18-Jul-2024 | 18-Jul-2024   | 1548951 |
| Sodium        | 7440-23-5  | 4630    | 20      | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Sodium        | 7440-23-5  | 1350    | 4.0     | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Strontium     | 7440-24-6  | 13.5    | 0.050   | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Strontium     | 7440-24-6  | 3.96    | 0.010   | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Tellurium     | 13494-80-9 | <0.020  | 0.020   | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Tellurium     | 13494-80-9 | <0.0040 | 0.0040  | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Thallium      | 7440-28-0  | <0.0020 | 0.0020  | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Thallium      | 7440-28-0  | 0.00046 | 0.00040 | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Tin           | 7440-31-5  | 0.21    | 0.10    | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Tin           | 7440-31-5  | 0.061   | 0.020   | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Uranium       | 7440-61-1  | 0.0023  | 0.0020  | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Uranium       | 7440-61-1  | 0.00068 | 0.00040 | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Vanadium      | 7440-62-2  | <0.10   | 0.10    | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Vanadium      | 7440-62-2  | 0.023   | 0.020   | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Zinc          | 7440-66-6  | 86.4    | 0.50    | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Zinc          | 7440-66-6  | 25.3    | 0.10    | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Zirconium     | 7440-67-7  | <0.20   | 0.20    | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Zirconium     | 7440-67-7  | <0.040  | 0.040   | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |



Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

EO2404299-009

Sub-Matrix: Tissue  
(Matrix: Biota)

Client sample ID: Plot 123 - 3 jars  
Client sampling date / time: 25-May-2024

| Analyte        | CAS Number | Result  | LOR    | Unit  | Method/Lab | Prep Date   | Analysis Date | QCLot   |
|----------------|------------|---------|--------|-------|------------|-------------|---------------|---------|
| Physical Tests |            |         |        |       |            |             |               |         |
| Moisture       | ----       | 72.1    | 0.50   | %     | E144/VA    | -           | 18-Jul-2024   | 1551440 |
| Metals         |            |         |        |       |            |             |               |         |
| Aluminum       | 7429-90-5  | 77.5    | 2.0    | mg/kg | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Aluminum       | 7429-90-5  | 21.6    | 0.40   | mg/kg | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
|                |            |         |        | wwt   |            |             |               |         |
| Antimony       | 7440-36-0  | <0.010  | 0.010  | mg/kg | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Antimony       | 7440-36-0  | 0.0023  | 0.0020 | mg/kg | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
|                |            |         |        | wwt   |            |             |               |         |
| Arsenic        | 7440-38-2  | 0.151   | 0.020  | mg/kg | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Arsenic        | 7440-38-2  | 0.0421  | 0.0040 | mg/kg | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
|                |            |         |        | wwt   |            |             |               |         |
| Barium         | 7440-39-3  | 27.2    | 0.050  | mg/kg | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Barium         | 7440-39-3  | 7.60    | 0.010  | mg/kg | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
|                |            |         |        | wwt   |            |             |               |         |
| Beryllium      | 7440-41-7  | <0.010  | 0.010  | mg/kg | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Beryllium      | 7440-41-7  | <0.0020 | 0.0020 | mg/kg | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
|                |            |         |        | wwt   |            |             |               |         |
| Bismuth        | 7440-69-9  | <0.010  | 0.010  | mg/kg | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Bismuth        | 7440-69-9  | 0.0023  | 0.0020 | mg/kg | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
|                |            |         |        | wwt   |            |             |               |         |
| Boron          | 7440-42-8  | 1.4     | 1.0    | mg/kg | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Boron          | 7440-42-8  | 0.38    | 0.20   | mg/kg | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
|                |            |         |        | wwt   |            |             |               |         |
| Cadmium        | 7440-43-9  | 0.0840  | 0.0050 | mg/kg | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Cadmium        | 7440-43-9  | 0.0234  | 0.0010 | mg/kg | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
|                |            |         |        | wwt   |            |             |               |         |
| Calcium        | 7440-70-2  | 22900   | 20     | mg/kg | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Calcium        | 7440-70-2  | 6400    | 4.0    | mg/kg | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
|                |            |         |        | wwt   |            |             |               |         |
| Cesium         | 7440-46-2  | 0.0566  | 0.0050 | mg/kg | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Cesium         | 7440-46-2  | 0.0158  | 0.0010 | mg/kg | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
|                |            |         |        | wwt   |            |             |               |         |
| Chromium       | 7440-47-3  | 0.167   | 0.050  | mg/kg | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Chromium       | 7440-47-3  | 0.047   | 0.010  | mg/kg | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
|                |            |         |        | wwt   |            |             |               |         |
| Cobalt         | 7440-48-4  | 0.287   | 0.020  | mg/kg | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Cobalt         | 7440-48-4  | 0.0802  | 0.0040 | mg/kg | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
|                |            |         |        | wwt   |            |             |               |         |
| Copper         | 7440-50-8  | 12.1    | 0.10   | mg/kg | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Copper         | 7440-50-8  | 3.38    | 0.020  | mg/kg | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
|                |            |         |        | wwt   |            |             |               |         |
| Iron           | 7439-89-6  | 416     | 3.0    | mg/kg | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Iron           | 7439-89-6  | 116     | 0.60   | mg/kg | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
|                |            |         |        | wwt   |            |             |               |         |
| Lead           | 7439-92-1  | 0.391   | 0.020  | mg/kg | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Lead           | 7439-92-1  | 0.109   | 0.0040 | mg/kg | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
|                |            |         |        | wwt   |            |             |               |         |



Analytical Results

EO2404299-009

Sub-Matrix:Tissue

(Matrix: Biota)

Client sample ID: Plot 123 - 3 jars

Client sampling date / time: 25-May-2024

| Analyte    | CAS Number | Result  | LOR     | Unit         | Method/Lab  | Prep Date   | Analysis Date | QCLot   |
|------------|------------|---------|---------|--------------|-------------|-------------|---------------|---------|
| Metals     |            |         |         |              |             |             |               |         |
| Lithium    | 7439-93-2  | <0.50   | 0.50    | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Lithium    | 7439-93-2  | <0.10   | 0.10    | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Magnesium  | 7439-95-4  | 1330    | 2.0     | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Magnesium  | 7439-95-4  | 370     | 0.40    | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Manganese  | 7439-96-5  | 114     | 0.050   | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Manganese  | 7439-96-5  | 31.7    | 0.010   | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Mercury    | 7439-97-6  | 0.425   | 0.0057  | mg/kg        | E510/VA     | 18-Jul-2024 | 20-Jul-2024   | 1548953 |
| Mercury    | 7439-97-6  | 0.119   | 0.0016  | mg/kg<br>wwt | E510A/VA    | 18-Jul-2024 | 20-Jul-2024   | 1548952 |
| Molybdenum | 7439-98-7  | 0.615   | 0.020   | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Molybdenum | 7439-98-7  | 0.172   | 0.0040  | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Nickel     | 7440-02-0  | 0.70    | 0.20    | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Nickel     | 7440-02-0  | 0.196   | 0.040   | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Phosphorus | 7723-14-0  | 20400   | 10      | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Phosphorus | 7723-14-0  | 5700    | 2.0     | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Potassium  | 7440-09-7  | 12500   | 20      | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Potassium  | 7440-09-7  | 3480    | 4.0     | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Rubidium   | 7440-17-7  | 19.8    | 0.050   | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Rubidium   | 7440-17-7  | 5.53    | 0.010   | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Selenium   | 7782-49-2  | 0.949   | 0.050   | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Selenium   | 7782-49-2  | 0.265   | 0.010   | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Silver     | 7440-22-4  | 0.0288  | 0.0050  | mg/kg        | E440.Ag/VA  | 18-Jul-2024 | 18-Jul-2024   | 1548954 |
| Silver     | 7440-22-4  | 0.0080  | 0.0010  | mg/kg<br>wwt | E440A.Ag/VA | 18-Jul-2024 | 18-Jul-2024   | 1548951 |
| Sodium     | 7440-23-5  | 4980    | 20      | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Sodium     | 7440-23-5  | 1390    | 4.0     | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Strontium  | 7440-24-6  | 10.2    | 0.050   | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Strontium  | 7440-24-6  | 2.85    | 0.010   | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Tellurium  | 13494-80-9 | <0.020  | 0.020   | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Tellurium  | 13494-80-9 | <0.0040 | 0.0040  | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Thallium   | 7440-28-0  | 0.0036  | 0.0020  | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Thallium   | 7440-28-0  | 0.00099 | 0.00040 | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Tin        | 7440-31-5  | 0.27    | 0.10    | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Tin        | 7440-31-5  | 0.076   | 0.020   | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Uranium    | 7440-61-1  | 0.0049  | 0.0020  | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |





Analytical Results

EO2404299-009

Sub-Matrix: Tissue

(Matrix: Biota)

Client sample ID: Plot 123 - 3 jars

Client sampling date / time: 25-May-2024

| Analyte   | CAS Number | Result  | LOR     | Unit      | Method/Lab | Prep Date   | Analysis Date | QCLot   |
|-----------|------------|---------|---------|-----------|------------|-------------|---------------|---------|
| Metals    |            |         |         |           |            |             |               |         |
| Uranium   | 7440-61-1  | 0.00136 | 0.00040 | mg/kg wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Vanadium  | 7440-62-2  | 0.18    | 0.10    | mg/kg     | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Vanadium  | 7440-62-2  | 0.052   | 0.020   | mg/kg wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Zinc      | 7440-66-6  | 98.7    | 0.50    | mg/kg     | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Zinc      | 7440-66-6  | 27.5    | 0.10    | mg/kg wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Zirconium | 7440-67-7  | <0.20   | 0.20    | mg/kg     | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Zirconium | 7440-67-7  | <0.040  | 0.040   | mg/kg wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

EO2404299-010

Sub-Matrix: Tissue

(Matrix: Biota)

Client sample ID: Plot 402 - 6 jars

Client sampling date / time: 25-May-2024

| Analyte        | CAS Number | Result  | LOR    | Unit      | Method/Lab | Prep Date   | Analysis Date | QCLot   |
|----------------|------------|---------|--------|-----------|------------|-------------|---------------|---------|
| Physical Tests |            |         |        |           |            |             |               |         |
| Moisture       | ----       | 73.1    | 0.50   | %         | E144/VA    | -           | 18-Jul-2024   | 1551440 |
| Metals         |            |         |        |           |            |             |               |         |
| Aluminum       | 7429-90-5  | 24.8    | 2.0    | mg/kg     | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Aluminum       | 7429-90-5  | 6.68    | 0.40   | mg/kg wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Antimony       | 7440-36-0  | <0.010  | 0.010  | mg/kg     | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Antimony       | 7440-36-0  | <0.0020 | 0.0020 | mg/kg wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Arsenic        | 7440-38-2  | 0.038   | 0.020  | mg/kg     | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Arsenic        | 7440-38-2  | 0.0102  | 0.0040 | mg/kg wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Barium         | 7440-39-3  | 25.7    | 0.050  | mg/kg     | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Barium         | 7440-39-3  | 6.92    | 0.010  | mg/kg wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Beryllium      | 7440-41-7  | <0.010  | 0.010  | mg/kg     | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Beryllium      | 7440-41-7  | <0.0020 | 0.0020 | mg/kg wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Bismuth        | 7440-69-9  | <0.010  | 0.010  | mg/kg     | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Bismuth        | 7440-69-9  | <0.0020 | 0.0020 | mg/kg wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Boron          | 7440-42-8  | 2.8     | 1.0    | mg/kg     | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Boron          | 7440-42-8  | 0.74    | 0.20   | mg/kg wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Cadmium        | 7440-43-9  | 0.530   | 0.0050 | mg/kg     | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Cadmium        | 7440-43-9  | 0.142   | 0.0010 | mg/kg wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |





Analytical Results

EO2404299-010

Sub-Matrix:Tissue

(Matrix: Biota)

Client sample ID: Plot 402 - 6 jars

Client sampling date / time: 25-May-2024

| Analyte    | CAS Number | Result | LOR    | Unit         | Method/Lab | Prep Date   | Analysis Date | QC/Lot  |
|------------|------------|--------|--------|--------------|------------|-------------|---------------|---------|
| Metals     |            |        |        |              |            |             |               |         |
| Calcium    | 7440-70-2  | 23600  | 20     | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Calcium    | 7440-70-2  | 6330   | 4.0    | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Cesium     | 7440-46-2  | 0.0653 | 0.0050 | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Cesium     | 7440-46-2  | 0.0176 | 0.0010 | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Chromium   | 7440-47-3  | 0.254  | 0.050  | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Chromium   | 7440-47-3  | 0.068  | 0.010  | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Cobalt     | 7440-48-4  | 0.332  | 0.020  | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Cobalt     | 7440-48-4  | 0.0891 | 0.0040 | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Copper     | 7440-50-8  | 12.3   | 0.10   | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Copper     | 7440-50-8  | 3.30   | 0.020  | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Iron       | 7439-89-6  | 254    | 3.0    | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Iron       | 7439-89-6  | 68.2   | 0.60   | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Lead       | 7439-92-1  | 0.088  | 0.020  | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Lead       | 7439-92-1  | 0.0236 | 0.0040 | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Lithium    | 7439-93-2  | <0.50  | 0.50   | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Lithium    | 7439-93-2  | <0.10  | 0.10   | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Magnesium  | 7439-95-4  | 1460   | 2.0    | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Magnesium  | 7439-95-4  | 394    | 0.40   | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Manganese  | 7439-96-5  | 33.4   | 0.050  | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Manganese  | 7439-96-5  | 8.96   | 0.010  | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Mercury    | 7439-97-6  | 0.0920 | 0.0053 | mg/kg        | E510/VA    | 18-Jul-2024 | 20-Jul-2024   | 1548953 |
| Mercury    | 7439-97-6  | 0.0247 | 0.0014 | mg/kg<br>wwt | E510A/VA   | 18-Jul-2024 | 20-Jul-2024   | 1548952 |
| Molybdenum | 7439-98-7  | 0.545  | 0.020  | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Molybdenum | 7439-98-7  | 0.146  | 0.0040 | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Nickel     | 7440-02-0  | 1.02   | 0.20   | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Nickel     | 7440-02-0  | 0.273  | 0.040  | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Phosphorus | 7723-14-0  | 19600  | 10     | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Phosphorus | 7723-14-0  | 5270   | 2.0    | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Potassium  | 7440-09-7  | 13100  | 20     | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Potassium  | 7440-09-7  | 3520   | 4.0    | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Rubidium   | 7440-17-7  | 54.9   | 0.050  | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Rubidium   | 7440-17-7  | 14.8   | 0.010  | mg/kg<br>wwt | E440A/VA   | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Selenium   | 7782-49-2  | 0.987  | 0.050  | mg/kg        | E440/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548949 |



## Analytical Results

EO2404299-010

Sub-Matrix: Tissue

(Matrix: Biota)

Client sample ID: Plot 402 - 6 jars

Client sampling date / time: 25-May-2024

| Analyte       | CAS Number | Result   | LOR     | Unit         | Method/Lab  | Prep Date   | Analysis Date | QCLot   |
|---------------|------------|----------|---------|--------------|-------------|-------------|---------------|---------|
| <b>Metals</b> |            |          |         |              |             |             |               |         |
| Selenium      | 7782-49-2  | 0.265    | 0.010   | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Silver        | 7440-22-4  | 0.0093   | 0.0050  | mg/kg        | E440.Ag/VA  | 18-Jul-2024 | 18-Jul-2024   | 1548954 |
| Silver        | 7440-22-4  | 0.0025   | 0.0010  | mg/kg<br>wwt | E440A.Ag/VA | 18-Jul-2024 | 18-Jul-2024   | 1548951 |
| Sodium        | 7440-23-5  | 4320     | 20      | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Sodium        | 7440-23-5  | 1160     | 4.0     | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Strontium     | 7440-24-6  | 17.2     | 0.050   | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Strontium     | 7440-24-6  | 4.62     | 0.010   | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Tellurium     | 13494-80-9 | <0.020   | 0.020   | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Tellurium     | 13494-80-9 | <0.0040  | 0.0040  | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Thallium      | 7440-28-0  | <0.0020  | 0.0020  | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Thallium      | 7440-28-0  | <0.00040 | 0.00040 | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Tin           | 7440-31-5  | 0.11     | 0.10    | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Tin           | 7440-31-5  | 0.031    | 0.020   | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Uranium       | 7440-61-1  | 0.0024   | 0.0020  | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Uranium       | 7440-61-1  | 0.00064  | 0.00040 | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Vanadium      | 7440-62-2  | <0.10    | 0.10    | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Vanadium      | 7440-62-2  | <0.020   | 0.020   | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Zinc          | 7440-66-6  | 86.1     | 0.50    | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Zinc          | 7440-66-6  | 23.1     | 0.10    | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |
| Zirconium     | 7440-67-7  | <0.20    | 0.20    | mg/kg        | E440/VA     | 18-Jul-2024 | 18-Jul-2024   | 1548949 |
| Zirconium     | 7440-67-7  | <0.040   | 0.040   | mg/kg<br>wwt | E440A/VA    | 18-Jul-2024 | 18-Jul-2024   | 1548950 |

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

## QUALITY CONTROL INTERPRETIVE REPORT

|                         |                                                          |                       |                                                           |
|-------------------------|----------------------------------------------------------|-----------------------|-----------------------------------------------------------|
| Work Order              | :EO2404299                                               | Page                  | : 1 of 15                                                 |
| Client                  | : Wildland Management Consultants Ltd.                   | Laboratory            | : ALS Environmental - Edmonton                            |
| Contact                 | : Lawrence Brusnyk                                       | Account Manager       | : Dana Brown                                              |
| Address                 | : 50345 Range Road 222<br>Leduc County AB Canada T0B 3M2 | Address               | : 9450 - 17 Avenue NW<br>Edmonton, Alberta Canada T6N 1M9 |
| Telephone               | : 780-915-4856                                           | Telephone             | : 7804136472                                              |
| Project                 | : SHTC 11-086                                            | Date Samples Received | : 05-Jun-2024 09:43                                       |
| PO                      | : ----                                                   | Issue Date            | : 20-Jul-2024 08:45                                       |
| C-O-C number            | : ----                                                   |                       |                                                           |
| Sampler                 | : LdB/JK                                                 |                       |                                                           |
| Site                    | : ----                                                   |                       |                                                           |
| Quote number            | : EO24-WMCL100-0001 Swanhills -Metals and Prep for Voles |                       |                                                           |
| No. of samples received | : 10                                                     |                       |                                                           |
| No. of samples analysed | : 10                                                     |                       |                                                           |

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

### Key

**Anonymous:** Refers to samples which are not part of this work order, but which formed part of the QC process lot.

**CAS Number:** Chemical Abstracts Service number is a unique identifier assigned to discrete substances.

**DQO:** Data Quality Objective.

**LOR:** Limit of Reporting (detection limit).

**RPD:** Relative Percent Difference.

### Workorder Comments

Holding times are displayed as "----" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

### Summary of Outliers

#### Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- Duplicate outliers occur - please see following pages for full details.
- No Test sample Surrogate recovery outliers exist.

#### Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

#### Outliers : Analysis Holding Time Compliance (Breaches)

- No Analysis Holding Time Outliers exist.

### ***Outliers : Frequency of Quality Control Samples***

- Quality Control Sample Frequency Outliers occur - please see following pages for full details.



Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: Biota

| Analyte Group        | Laboratory sample ID | Client/Ref Sample ID | Analyte  | CAS Number | Method | Result       | Limits | Comment                                            |
|----------------------|----------------------|----------------------|----------|------------|--------|--------------|--------|----------------------------------------------------|
| Duplicate (DUP) RPDs |                      |                      |          |            |        |              |        |                                                    |
| Metals               | Anonymous            | Anonymous            | Chromium | 7440-47-3  | E440   | 58.8 % DUP-H | 40%    | Duplicate RPD does not meet the DQO for this test. |
| Metals               | Anonymous            | Anonymous            | Chromium | 7440-47-3  | E440A  | 58.8 % DUP-H | 40%    | Duplicate RPD does not meet the DQO for this test. |

Result Qualifiers

| Qualifier | Description                                                     |
|-----------|-----------------------------------------------------------------|
| DUP-H     | Duplicate results outside ALS DQO, due to sample heterogeneity. |



## Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: **Biota**

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

| Analyte Group : Analytical Method<br>Container / Client Sample ID(s) | Method | Sampling Date | Extraction / Preparation |               |         |      | Analysis      |               |         |      |
|----------------------------------------------------------------------|--------|---------------|--------------------------|---------------|---------|------|---------------|---------------|---------|------|
|                                                                      |        |               | Preparation Date         | Holding Times |         | Eval | Analysis Date | Holding Times |         | Eval |
|                                                                      |        |               |                          | Rec           | Actual  |      |               | Rec           | Actual  |      |
| Metals : Mercury in Biota by CVAAS (DRY units, Routine)              |        |               |                          |               |         |      |               |               |         |      |
| Glass soil jar/Teflon lined cap<br>Plot 109 - 5 jars                 | E510   | 25-May-2024   | 18-Jul-2024              | 365 days      | 54 days | ✓    | 20-Jul-2024   | 365 days      | 56 days | ✓    |
| Metals : Mercury in Biota by CVAAS (DRY units, Routine)              |        |               |                          |               |         |      |               |               |         |      |
| Glass soil jar/Teflon lined cap<br>Plot 11 - 4 jars                  | E510   | 25-May-2024   | 18-Jul-2024              | 365 days      | 54 days | ✓    | 20-Jul-2024   | 365 days      | 56 days | ✓    |
| Metals : Mercury in Biota by CVAAS (DRY units, Routine)              |        |               |                          |               |         |      |               |               |         |      |
| Glass soil jar/Teflon lined cap<br>Plot 110 - 4 jars                 | E510   | 25-May-2024   | 18-Jul-2024              | 365 days      | 54 days | ✓    | 20-Jul-2024   | 365 days      | 56 days | ✓    |
| Metals : Mercury in Biota by CVAAS (DRY units, Routine)              |        |               |                          |               |         |      |               |               |         |      |
| Glass soil jar/Teflon lined cap<br>Plot 114 - 4 jars                 | E510   | 25-May-2024   | 18-Jul-2024              | 365 days      | 54 days | ✓    | 20-Jul-2024   | 365 days      | 56 days | ✓    |
| Metals : Mercury in Biota by CVAAS (DRY units, Routine)              |        |               |                          |               |         |      |               |               |         |      |
| Glass soil jar/Teflon lined cap<br>Plot 117 - 1 jar                  | E510   | 25-May-2024   | 18-Jul-2024              | 365 days      | 54 days | ✓    | 20-Jul-2024   | 365 days      | 56 days | ✓    |
| Metals : Mercury in Biota by CVAAS (DRY units, Routine)              |        |               |                          |               |         |      |               |               |         |      |
| Glass soil jar/Teflon lined cap<br>Plot 123 - 3 jars                 | E510   | 25-May-2024   | 18-Jul-2024              | 365 days      | 54 days | ✓    | 20-Jul-2024   | 365 days      | 56 days | ✓    |
| Metals : Mercury in Biota by CVAAS (DRY units, Routine)              |        |               |                          |               |         |      |               |               |         |      |
| Glass soil jar/Teflon lined cap<br>Plot 4 - 6 jars                   | E510   | 25-May-2024   | 18-Jul-2024              | 365 days      | 54 days | ✓    | 20-Jul-2024   | 365 days      | 56 days | ✓    |



Matrix: Biota Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

| Analyte Group : Analytical Method                       | Method | Sampling Date | Extraction / Preparation |               |         |      | Analysis      |               |         |      |
|---------------------------------------------------------|--------|---------------|--------------------------|---------------|---------|------|---------------|---------------|---------|------|
| Container / Client Sample ID(s)                         |        |               | Preparation Date         | Holding Times |         | Eval | Analysis Date | Holding Times |         | Eval |
|                                                         |        |               |                          | Rec           | Actual  |      |               | Rec           | Actual  |      |
| Metals : Mercury in Biota by CVAAS (DRY units, Routine) |        |               |                          |               |         |      |               |               |         |      |
| Glass soil jar/Teflon lined cap<br>Plot 402 - 6 jars    | E510   | 25-May-2024   | 18-Jul-2024              | 365 days      | 54 days | ✓    | 20-Jul-2024   | 365 days      | 56 days | ✓    |
| Metals : Mercury in Biota by CVAAS (DRY units, Routine) |        |               |                          |               |         |      |               |               |         |      |
| Glass soil jar/Teflon lined cap<br>Plot 70 - 3 jars     | E510   | 25-May-2024   | 18-Jul-2024              | 365 days      | 54 days | ✓    | 20-Jul-2024   | 365 days      | 56 days | ✓    |
| Metals : Mercury in Biota by CVAAS (DRY units, Routine) |        |               |                          |               |         |      |               |               |         |      |
| Glass soil jar/Teflon lined cap<br>Plot 71 - 5 jars     | E510   | 25-May-2024   | 18-Jul-2024              | 365 days      | 54 days | ✓    | 20-Jul-2024   | 365 days      | 56 days | ✓    |
| Metals : Mercury in Biota by CVAAS (WET units, Routine) |        |               |                          |               |         |      |               |               |         |      |
| Glass soil jar/Teflon lined cap<br>Plot 109 - 5 jars    | E510A  | 25-May-2024   | 18-Jul-2024              | 365 days      | 54 days | ✓    | 20-Jul-2024   | 365 days      | 56 days | ✓    |
| Metals : Mercury in Biota by CVAAS (WET units, Routine) |        |               |                          |               |         |      |               |               |         |      |
| Glass soil jar/Teflon lined cap<br>Plot 11 - 4 jars     | E510A  | 25-May-2024   | 18-Jul-2024              | 365 days      | 54 days | ✓    | 20-Jul-2024   | 365 days      | 56 days | ✓    |
| Metals : Mercury in Biota by CVAAS (WET units, Routine) |        |               |                          |               |         |      |               |               |         |      |
| Glass soil jar/Teflon lined cap<br>Plot 110 - 4 jars    | E510A  | 25-May-2024   | 18-Jul-2024              | 365 days      | 54 days | ✓    | 20-Jul-2024   | 365 days      | 56 days | ✓    |
| Metals : Mercury in Biota by CVAAS (WET units, Routine) |        |               |                          |               |         |      |               |               |         |      |
| Glass soil jar/Teflon lined cap<br>Plot 114 - 4 jars    | E510A  | 25-May-2024   | 18-Jul-2024              | 365 days      | 54 days | ✓    | 20-Jul-2024   | 365 days      | 56 days | ✓    |
| Metals : Mercury in Biota by CVAAS (WET units, Routine) |        |               |                          |               |         |      |               |               |         |      |
| Glass soil jar/Teflon lined cap<br>Plot 117 - 1 jar     | E510A  | 25-May-2024   | 18-Jul-2024              | 365 days      | 54 days | ✓    | 20-Jul-2024   | 365 days      | 56 days | ✓    |
| Metals : Mercury in Biota by CVAAS (WET units, Routine) |        |               |                          |               |         |      |               |               |         |      |
| Glass soil jar/Teflon lined cap<br>Plot 123 - 3 jars    | E510A  | 25-May-2024   | 18-Jul-2024              | 365 days      | 54 days | ✓    | 20-Jul-2024   | 365 days      | 56 days | ✓    |



Matrix: Biota Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

| Analyte Group : Analytical Method                          | Method | Sampling Date | Extraction / Preparation |               |         |      | Analysis      |               |         |      |
|------------------------------------------------------------|--------|---------------|--------------------------|---------------|---------|------|---------------|---------------|---------|------|
| Container / Client Sample ID(s)                            |        |               | Preparation Date         | Holding Times |         | Eval | Analysis Date | Holding Times |         | Eval |
|                                                            |        |               |                          | Rec           | Actual  |      |               | Rec           | Actual  |      |
| Metals : Mercury in Biota by CVAAS (WET units, Routine)    |        |               |                          |               |         |      |               |               |         |      |
| Glass soil jar/Teflon lined cap<br>Plot 4 - 6 jars         | E510A  | 25-May-2024   | 18-Jul-2024              | 365 days      | 54 days | ✓    | 20-Jul-2024   | 365 days      | 56 days | ✓    |
| Metals : Mercury in Biota by CVAAS (WET units, Routine)    |        |               |                          |               |         |      |               |               |         |      |
| Glass soil jar/Teflon lined cap<br>Plot 402 - 6 jars       | E510A  | 25-May-2024   | 18-Jul-2024              | 365 days      | 54 days | ✓    | 20-Jul-2024   | 365 days      | 56 days | ✓    |
| Metals : Mercury in Biota by CVAAS (WET units, Routine)    |        |               |                          |               |         |      |               |               |         |      |
| Glass soil jar/Teflon lined cap<br>Plot 70 - 3 jars        | E510A  | 25-May-2024   | 18-Jul-2024              | 365 days      | 54 days | ✓    | 20-Jul-2024   | 365 days      | 56 days | ✓    |
| Metals : Mercury in Biota by CVAAS (WET units, Routine)    |        |               |                          |               |         |      |               |               |         |      |
| Glass soil jar/Teflon lined cap<br>Plot 71 - 5 jars        | E510A  | 25-May-2024   | 18-Jul-2024              | 365 days      | 54 days | ✓    | 20-Jul-2024   | 365 days      | 56 days | ✓    |
| Metals : Metals in Biota by CRC ICPMS (DRY units, Routine) |        |               |                          |               |         |      |               |               |         |      |
| Glass soil jar/Teflon lined cap<br>Plot 109 - 5 jars       | E440   | 25-May-2024   | 18-Jul-2024              | 730 days      | 54 days | ✓    | 18-Jul-2024   | 730 days      | 55 days | ✓    |
| Metals : Metals in Biota by CRC ICPMS (DRY units, Routine) |        |               |                          |               |         |      |               |               |         |      |
| Glass soil jar/Teflon lined cap<br>Plot 11 - 4 jars        | E440   | 25-May-2024   | 18-Jul-2024              | 730 days      | 54 days | ✓    | 18-Jul-2024   | 730 days      | 55 days | ✓    |
| Metals : Metals in Biota by CRC ICPMS (DRY units, Routine) |        |               |                          |               |         |      |               |               |         |      |
| Glass soil jar/Teflon lined cap<br>Plot 110 - 4 jars       | E440   | 25-May-2024   | 18-Jul-2024              | 730 days      | 54 days | ✓    | 18-Jul-2024   | 730 days      | 55 days | ✓    |
| Metals : Metals in Biota by CRC ICPMS (DRY units, Routine) |        |               |                          |               |         |      |               |               |         |      |
| Glass soil jar/Teflon lined cap<br>Plot 114 - 4 jars       | E440   | 25-May-2024   | 18-Jul-2024              | 730 days      | 54 days | ✓    | 18-Jul-2024   | 730 days      | 55 days | ✓    |
| Metals : Metals in Biota by CRC ICPMS (DRY units, Routine) |        |               |                          |               |         |      |               |               |         |      |
| Glass soil jar/Teflon lined cap<br>Plot 117 - 1 jar        | E440   | 25-May-2024   | 18-Jul-2024              | 730 days      | 54 days | ✓    | 18-Jul-2024   | 730 days      | 55 days | ✓    |





Matrix: Biota Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

| Analyte Group : Analytical Method                          | Method | Sampling Date | Extraction / Preparation |               |         |      | Analysis      |               |         |      |
|------------------------------------------------------------|--------|---------------|--------------------------|---------------|---------|------|---------------|---------------|---------|------|
| Container / Client Sample ID(s)                            |        |               | Preparation Date         | Holding Times |         | Eval | Analysis Date | Holding Times |         | Eval |
|                                                            |        |               |                          | Rec           | Actual  |      |               | Rec           | Actual  |      |
| Metals : Metals in Biota by CRC ICPMS (DRY units, Routine) |        |               |                          |               |         |      |               |               |         |      |
| Glass soil jar/Teflon lined cap<br>Plot 123 - 3 jars       | E440   | 25-May-2024   | 18-Jul-2024              | 730 days      | 54 days | ✓    | 18-Jul-2024   | 730 days      | 55 days | ✓    |
| Metals : Metals in Biota by CRC ICPMS (DRY units, Routine) |        |               |                          |               |         |      |               |               |         |      |
| Glass soil jar/Teflon lined cap<br>Plot 4 - 6 jars         | E440   | 25-May-2024   | 18-Jul-2024              | 730 days      | 54 days | ✓    | 18-Jul-2024   | 730 days      | 55 days | ✓    |
| Metals : Metals in Biota by CRC ICPMS (DRY units, Routine) |        |               |                          |               |         |      |               |               |         |      |
| Glass soil jar/Teflon lined cap<br>Plot 402 - 6 jars       | E440   | 25-May-2024   | 18-Jul-2024              | 730 days      | 54 days | ✓    | 18-Jul-2024   | 730 days      | 55 days | ✓    |
| Metals : Metals in Biota by CRC ICPMS (DRY units, Routine) |        |               |                          |               |         |      |               |               |         |      |
| Glass soil jar/Teflon lined cap<br>Plot 70 - 3 jars        | E440   | 25-May-2024   | 18-Jul-2024              | 730 days      | 54 days | ✓    | 18-Jul-2024   | 730 days      | 55 days | ✓    |
| Metals : Metals in Biota by CRC ICPMS (DRY units, Routine) |        |               |                          |               |         |      |               |               |         |      |
| Glass soil jar/Teflon lined cap<br>Plot 71 - 5 jars        | E440   | 25-May-2024   | 18-Jul-2024              | 730 days      | 54 days | ✓    | 18-Jul-2024   | 730 days      | 55 days | ✓    |
| Metals : Metals in Biota by CRC ICPMS (WET units, Routine) |        |               |                          |               |         |      |               |               |         |      |
| Glass soil jar/Teflon lined cap<br>Plot 109 - 5 jars       | E440A  | 25-May-2024   | 18-Jul-2024              | 730 days      | 54 days | ✓    | 18-Jul-2024   | 730 days      | 55 days | ✓    |
| Metals : Metals in Biota by CRC ICPMS (WET units, Routine) |        |               |                          |               |         |      |               |               |         |      |
| Glass soil jar/Teflon lined cap<br>Plot 11 - 4 jars        | E440A  | 25-May-2024   | 18-Jul-2024              | 730 days      | 54 days | ✓    | 18-Jul-2024   | 730 days      | 55 days | ✓    |
| Metals : Metals in Biota by CRC ICPMS (WET units, Routine) |        |               |                          |               |         |      |               |               |         |      |
| Glass soil jar/Teflon lined cap<br>Plot 110 - 4 jars       | E440A  | 25-May-2024   | 18-Jul-2024              | 730 days      | 54 days | ✓    | 18-Jul-2024   | 730 days      | 55 days | ✓    |
| Metals : Metals in Biota by CRC ICPMS (WET units, Routine) |        |               |                          |               |         |      |               |               |         |      |
| Glass soil jar/Teflon lined cap<br>Plot 114 - 4 jars       | E440A  | 25-May-2024   | 18-Jul-2024              | 730 days      | 54 days | ✓    | 18-Jul-2024   | 730 days      | 55 days | ✓    |



Matrix: Biota Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

| Analyte Group : Analytical Method                          | Method  | Sampling Date | Extraction / Preparation |               |         |      | Analysis      |               |         |      |
|------------------------------------------------------------|---------|---------------|--------------------------|---------------|---------|------|---------------|---------------|---------|------|
| Container / Client Sample ID(s)                            |         |               | Preparation Date         | Holding Times |         | Eval | Analysis Date | Holding Times |         | Eval |
|                                                            |         |               |                          | Rec           | Actual  |      |               | Rec           | Actual  |      |
| Metals : Metals in Biota by CRC ICPMS (WET units, Routine) |         |               |                          |               |         |      |               |               |         |      |
| Glass soil jar/Teflon lined cap<br>Plot 117 - 1 jar        | E440A   | 25-May-2024   | 18-Jul-2024              | 730 days      | 54 days | ✓    | 18-Jul-2024   | 730 days      | 55 days | ✓    |
| Metals : Metals in Biota by CRC ICPMS (WET units, Routine) |         |               |                          |               |         |      |               |               |         |      |
| Glass soil jar/Teflon lined cap<br>Plot 123 - 3 jars       | E440A   | 25-May-2024   | 18-Jul-2024              | 730 days      | 54 days | ✓    | 18-Jul-2024   | 730 days      | 55 days | ✓    |
| Metals : Metals in Biota by CRC ICPMS (WET units, Routine) |         |               |                          |               |         |      |               |               |         |      |
| Glass soil jar/Teflon lined cap<br>Plot 4 - 6 jars         | E440A   | 25-May-2024   | 18-Jul-2024              | 730 days      | 54 days | ✓    | 18-Jul-2024   | 730 days      | 55 days | ✓    |
| Metals : Metals in Biota by CRC ICPMS (WET units, Routine) |         |               |                          |               |         |      |               |               |         |      |
| Glass soil jar/Teflon lined cap<br>Plot 402 - 6 jars       | E440A   | 25-May-2024   | 18-Jul-2024              | 730 days      | 54 days | ✓    | 18-Jul-2024   | 730 days      | 55 days | ✓    |
| Metals : Metals in Biota by CRC ICPMS (WET units, Routine) |         |               |                          |               |         |      |               |               |         |      |
| Glass soil jar/Teflon lined cap<br>Plot 70 - 3 jars        | E440A   | 25-May-2024   | 18-Jul-2024              | 730 days      | 54 days | ✓    | 18-Jul-2024   | 730 days      | 55 days | ✓    |
| Metals : Metals in Biota by CRC ICPMS (WET units, Routine) |         |               |                          |               |         |      |               |               |         |      |
| Glass soil jar/Teflon lined cap<br>Plot 71 - 5 jars        | E440A   | 25-May-2024   | 18-Jul-2024              | 730 days      | 54 days | ✓    | 18-Jul-2024   | 730 days      | 55 days | ✓    |
| Metals : Silver in Biota by CRC ICPMS (DRY units, Routine) |         |               |                          |               |         |      |               |               |         |      |
| Glass soil jar/Teflon lined cap<br>Plot 109 - 5 jars       | E440.Ag | 25-May-2024   | 18-Jul-2024              | 730 days      | 54 days | ✓    | 18-Jul-2024   | 730 days      | 55 days | ✓    |
| Metals : Silver in Biota by CRC ICPMS (DRY units, Routine) |         |               |                          |               |         |      |               |               |         |      |
| Glass soil jar/Teflon lined cap<br>Plot 11 - 4 jars        | E440.Ag | 25-May-2024   | 18-Jul-2024              | 730 days      | 54 days | ✓    | 18-Jul-2024   | 730 days      | 55 days | ✓    |
| Metals : Silver in Biota by CRC ICPMS (DRY units, Routine) |         |               |                          |               |         |      |               |               |         |      |
| Glass soil jar/Teflon lined cap<br>Plot 110 - 4 jars       | E440.Ag | 25-May-2024   | 18-Jul-2024              | 730 days      | 54 days | ✓    | 18-Jul-2024   | 730 days      | 55 days | ✓    |



Matrix: Biota Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

| <i>Analyte Group : Analytical Method</i>                   | <i>Method</i> | <i>Sampling Date</i> | <i>Extraction / Preparation</i> |                      |               |             | <i>Analysis</i>      |                      |               |             |
|------------------------------------------------------------|---------------|----------------------|---------------------------------|----------------------|---------------|-------------|----------------------|----------------------|---------------|-------------|
| <i>Container / Client Sample ID(s)</i>                     |               |                      | <i>Preparation Date</i>         | <i>Holding Times</i> |               | <i>Eval</i> | <i>Analysis Date</i> | <i>Holding Times</i> |               | <i>Eval</i> |
|                                                            |               |                      |                                 | <i>Rec</i>           | <i>Actual</i> |             |                      | <i>Rec</i>           | <i>Actual</i> |             |
| Metals : Silver in Biota by CRC ICPMS (DRY units, Routine) |               |                      |                                 |                      |               |             |                      |                      |               |             |
| Glass soil jar/Teflon lined cap<br>Plot 114 - 4 jars       | E440.Ag       | 25-May-2024          | 18-Jul-2024                     | 730 days             | 54 days       | ✓           | 18-Jul-2024          | 730 days             | 55 days       | ✓           |
| Metals : Silver in Biota by CRC ICPMS (DRY units, Routine) |               |                      |                                 |                      |               |             |                      |                      |               |             |
| Glass soil jar/Teflon lined cap<br>Plot 117 - 1 jar        | E440.Ag       | 25-May-2024          | 18-Jul-2024                     | 730 days             | 54 days       | ✓           | 18-Jul-2024          | 730 days             | 55 days       | ✓           |
| Metals : Silver in Biota by CRC ICPMS (DRY units, Routine) |               |                      |                                 |                      |               |             |                      |                      |               |             |
| Glass soil jar/Teflon lined cap<br>Plot 123 - 3 jars       | E440.Ag       | 25-May-2024          | 18-Jul-2024                     | 730 days             | 54 days       | ✓           | 18-Jul-2024          | 730 days             | 55 days       | ✓           |
| Metals : Silver in Biota by CRC ICPMS (DRY units, Routine) |               |                      |                                 |                      |               |             |                      |                      |               |             |
| Glass soil jar/Teflon lined cap<br>Plot 4 - 6 jars         | E440.Ag       | 25-May-2024          | 18-Jul-2024                     | 730 days             | 54 days       | ✓           | 18-Jul-2024          | 730 days             | 55 days       | ✓           |
| Metals : Silver in Biota by CRC ICPMS (DRY units, Routine) |               |                      |                                 |                      |               |             |                      |                      |               |             |
| Glass soil jar/Teflon lined cap<br>Plot 402 - 6 jars       | E440.Ag       | 25-May-2024          | 18-Jul-2024                     | 730 days             | 54 days       | ✓           | 18-Jul-2024          | 730 days             | 55 days       | ✓           |
| Metals : Silver in Biota by CRC ICPMS (DRY units, Routine) |               |                      |                                 |                      |               |             |                      |                      |               |             |
| Glass soil jar/Teflon lined cap<br>Plot 70 - 3 jars        | E440.Ag       | 25-May-2024          | 18-Jul-2024                     | 730 days             | 54 days       | ✓           | 18-Jul-2024          | 730 days             | 55 days       | ✓           |
| Metals : Silver in Biota by CRC ICPMS (DRY units, Routine) |               |                      |                                 |                      |               |             |                      |                      |               |             |
| Glass soil jar/Teflon lined cap<br>Plot 71 - 5 jars        | E440.Ag       | 25-May-2024          | 18-Jul-2024                     | 730 days             | 54 days       | ✓           | 18-Jul-2024          | 730 days             | 55 days       | ✓           |
| Metals : Silver in Biota by CRC ICPMS (WET units, Routine) |               |                      |                                 |                      |               |             |                      |                      |               |             |
| Glass soil jar/Teflon lined cap<br>Plot 109 - 5 jars       | E440A.Ag      | 25-May-2024          | 18-Jul-2024                     | 730 days             | 54 days       | ✓           | 18-Jul-2024          | 730 days             | 55 days       | ✓           |
| Metals : Silver in Biota by CRC ICPMS (WET units, Routine) |               |                      |                                 |                      |               |             |                      |                      |               |             |
| Glass soil jar/Teflon lined cap<br>Plot 11 - 4 jars        | E440A.Ag      | 25-May-2024          | 18-Jul-2024                     | 730 days             | 54 days       | ✓           | 18-Jul-2024          | 730 days             | 55 days       | ✓           |



Matrix: **Biota** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

| Analyte Group : Analytical Method                          | Method   | Sampling Date | Extraction / Preparation |               |         |      | Analysis      |               |         |      |
|------------------------------------------------------------|----------|---------------|--------------------------|---------------|---------|------|---------------|---------------|---------|------|
| Container / Client Sample ID(s)                            |          |               | Preparation Date         | Holding Times |         | Eval | Analysis Date | Holding Times |         | Eval |
|                                                            |          |               |                          | Rec           | Actual  |      |               | Rec           | Actual  |      |
| Metals : Silver in Biota by CRC ICPMS (WET units, Routine) |          |               |                          |               |         |      |               |               |         |      |
| Glass soil jar/Teflon lined cap<br>Plot 110 - 4 jars       | E440A.Ag | 25-May-2024   | 18-Jul-2024              | 730 days      | 54 days | ✓    | 18-Jul-2024   | 730 days      | 55 days | ✓    |
| Metals : Silver in Biota by CRC ICPMS (WET units, Routine) |          |               |                          |               |         |      |               |               |         |      |
| Glass soil jar/Teflon lined cap<br>Plot 114 - 4 jars       | E440A.Ag | 25-May-2024   | 18-Jul-2024              | 730 days      | 54 days | ✓    | 18-Jul-2024   | 730 days      | 55 days | ✓    |
| Metals : Silver in Biota by CRC ICPMS (WET units, Routine) |          |               |                          |               |         |      |               |               |         |      |
| Glass soil jar/Teflon lined cap<br>Plot 117 - 1 jar        | E440A.Ag | 25-May-2024   | 18-Jul-2024              | 730 days      | 54 days | ✓    | 18-Jul-2024   | 730 days      | 55 days | ✓    |
| Metals : Silver in Biota by CRC ICPMS (WET units, Routine) |          |               |                          |               |         |      |               |               |         |      |
| Glass soil jar/Teflon lined cap<br>Plot 123 - 3 jars       | E440A.Ag | 25-May-2024   | 18-Jul-2024              | 730 days      | 54 days | ✓    | 18-Jul-2024   | 730 days      | 55 days | ✓    |
| Metals : Silver in Biota by CRC ICPMS (WET units, Routine) |          |               |                          |               |         |      |               |               |         |      |
| Glass soil jar/Teflon lined cap<br>Plot 4 - 6 jars         | E440A.Ag | 25-May-2024   | 18-Jul-2024              | 730 days      | 54 days | ✓    | 18-Jul-2024   | 730 days      | 55 days | ✓    |
| Metals : Silver in Biota by CRC ICPMS (WET units, Routine) |          |               |                          |               |         |      |               |               |         |      |
| Glass soil jar/Teflon lined cap<br>Plot 402 - 6 jars       | E440A.Ag | 25-May-2024   | 18-Jul-2024              | 730 days      | 54 days | ✓    | 18-Jul-2024   | 730 days      | 55 days | ✓    |
| Metals : Silver in Biota by CRC ICPMS (WET units, Routine) |          |               |                          |               |         |      |               |               |         |      |
| Glass soil jar/Teflon lined cap<br>Plot 70 - 3 jars        | E440A.Ag | 25-May-2024   | 18-Jul-2024              | 730 days      | 54 days | ✓    | 18-Jul-2024   | 730 days      | 55 days | ✓    |
| Metals : Silver in Biota by CRC ICPMS (WET units, Routine) |          |               |                          |               |         |      |               |               |         |      |
| Glass soil jar/Teflon lined cap<br>Plot 71 - 5 jars        | E440A.Ag | 25-May-2024   | 18-Jul-2024              | 730 days      | 54 days | ✓    | 18-Jul-2024   | 730 days      | 55 days | ✓    |
| Physical Tests : Moisture Content by Gravimetry            |          |               |                          |               |         |      |               |               |         |      |
| Glass soil jar/Teflon lined cap<br>Plot 109 - 5 jars       | E144     | 25-May-2024   | ----                     | ----          | ----    |      | 18-Jul-2024   | ----          | 54 days |      |



Matrix: **Biota** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

| Analyte Group : Analytical Method                    | Method | Sampling Date | Extraction / Preparation |               |        |      | Analysis      |               |         |      |
|------------------------------------------------------|--------|---------------|--------------------------|---------------|--------|------|---------------|---------------|---------|------|
| Container / Client Sample ID(s)                      |        |               | Preparation Date         | Holding Times |        | Eval | Analysis Date | Holding Times |         | Eval |
|                                                      |        |               |                          | Rec           | Actual |      |               | Rec           | Actual  |      |
| Physical Tests : Moisture Content by Gravimetry      |        |               |                          |               |        |      |               |               |         |      |
| Glass soil jar/Teflon lined cap<br>Plot 11 - 4 jars  | E144   | 25-May-2024   | ----                     | ----          | ----   |      | 18-Jul-2024   | ----          | 54 days |      |
| Physical Tests : Moisture Content by Gravimetry      |        |               |                          |               |        |      |               |               |         |      |
| Glass soil jar/Teflon lined cap<br>Plot 110 - 4 jars | E144   | 25-May-2024   | ----                     | ----          | ----   |      | 18-Jul-2024   | ----          | 54 days |      |
| Physical Tests : Moisture Content by Gravimetry      |        |               |                          |               |        |      |               |               |         |      |
| Glass soil jar/Teflon lined cap<br>Plot 114 - 4 jars | E144   | 25-May-2024   | ----                     | ----          | ----   |      | 18-Jul-2024   | ----          | 54 days |      |
| Physical Tests : Moisture Content by Gravimetry      |        |               |                          |               |        |      |               |               |         |      |
| Glass soil jar/Teflon lined cap<br>Plot 117 - 1 jar  | E144   | 25-May-2024   | ----                     | ----          | ----   |      | 18-Jul-2024   | ----          | 54 days |      |
| Physical Tests : Moisture Content by Gravimetry      |        |               |                          |               |        |      |               |               |         |      |
| Glass soil jar/Teflon lined cap<br>Plot 123 - 3 jars | E144   | 25-May-2024   | ----                     | ----          | ----   |      | 18-Jul-2024   | ----          | 54 days |      |
| Physical Tests : Moisture Content by Gravimetry      |        |               |                          |               |        |      |               |               |         |      |
| Glass soil jar/Teflon lined cap<br>Plot 4 - 6 jars   | E144   | 25-May-2024   | ----                     | ----          | ----   |      | 18-Jul-2024   | ----          | 54 days |      |
| Physical Tests : Moisture Content by Gravimetry      |        |               |                          |               |        |      |               |               |         |      |
| Glass soil jar/Teflon lined cap<br>Plot 402 - 6 jars | E144   | 25-May-2024   | ----                     | ----          | ----   |      | 18-Jul-2024   | ----          | 54 days |      |
| Physical Tests : Moisture Content by Gravimetry      |        |               |                          |               |        |      |               |               |         |      |
| Glass soil jar/Teflon lined cap<br>Plot 70 - 3 jars  | E144   | 25-May-2024   | ----                     | ----          | ----   |      | 18-Jul-2024   | ----          | 54 days |      |
| Physical Tests : Moisture Content by Gravimetry      |        |               |                          |               |        |      |               |               |         |      |
| Glass soil jar/Teflon lined cap<br>Plot 71 - 5 jars  | E144   | 25-May-2024   | ----                     | ----          | ----   |      | 18-Jul-2024   | ----          | 54 days |      |

[Legend & Qualifier Definitions](#)

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Client : Wildland Management Consultants Ltd.  
Project : SHTC 11-086



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Rec. HT: ALS recommended hold time (see units).



## Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: **Biota**

Evaluation: ✖ = QC frequency outside specification; ✔ = QC frequency within specification.

| Quality Control Sample Type                       |          |          | Count |         | Frequency (%) |          |            |
|---------------------------------------------------|----------|----------|-------|---------|---------------|----------|------------|
| Analytical Methods                                | Method   | QC Lot # | QC    | Regular | Actual        | Expected | Evaluation |
| Laboratory Duplicates (DUP)                       |          |          |       |         |               |          |            |
| Mercury in Biota by CVAAS (DRY units, Routine)    | E510     | 1548953  | 1     | 15      | 6.6           | 5.0      | ✔          |
| Mercury in Biota by CVAAS (WET units, Routine)    | E510A    | 1548952  | 1     | 15      | 6.6           | 5.0      | ✔          |
| Metals in Biota by CRC ICPMS (DRY units, Routine) | E440     | 1548949  | 1     | 15      | 6.6           | 5.0      | ✔          |
| Metals in Biota by CRC ICPMS (WET units, Routine) | E440A    | 1548950  | 1     | 15      | 6.6           | 5.0      | ✔          |
| Moisture Content by Gravimetry                    | E144     | 1551440  | 0     | 13      | 0.0           | 5.0      | ✖          |
| Silver in Biota by CRC ICPMS (DRY units, Routine) | E440.Ag  | 1548954  | 1     | 15      | 6.6           | 5.0      | ✔          |
| Silver in Biota by CRC ICPMS (WET units, Routine) | E440A.Ag | 1548951  | 1     | 15      | 6.6           | 5.0      | ✔          |
| Laboratory Control Samples (LCS)                  |          |          |       |         |               |          |            |
| Mercury in Biota by CVAAS (DRY units, Routine)    | E510     | 1548953  | 2     | 15      | 13.3          | 10.0     | ✔          |
| Mercury in Biota by CVAAS (WET units, Routine)    | E510A    | 1548952  | 2     | 15      | 13.3          | 10.0     | ✔          |
| Metals in Biota by CRC ICPMS (DRY units, Routine) | E440     | 1548949  | 2     | 15      | 13.3          | 10.0     | ✔          |
| Metals in Biota by CRC ICPMS (WET units, Routine) | E440A    | 1548950  | 2     | 15      | 13.3          | 10.0     | ✔          |
| Moisture Content by Gravimetry                    | E144     | 1551440  | 1     | 13      | 7.6           | 5.0      | ✔          |
| Silver in Biota by CRC ICPMS (DRY units, Routine) | E440.Ag  | 1548954  | 2     | 15      | 13.3          | 10.0     | ✔          |
| Silver in Biota by CRC ICPMS (WET units, Routine) | E440A.Ag | 1548951  | 2     | 15      | 13.3          | 10.0     | ✔          |
| Method Blanks (MB)                                |          |          |       |         |               |          |            |
| Mercury in Biota by CVAAS (DRY units, Routine)    | E510     | 1548953  | 1     | 15      | 6.6           | 5.0      | ✔          |
| Mercury in Biota by CVAAS (WET units, Routine)    | E510A    | 1548952  | 1     | 15      | 6.6           | 5.0      | ✔          |
| Metals in Biota by CRC ICPMS (DRY units, Routine) | E440     | 1548949  | 1     | 15      | 6.6           | 5.0      | ✔          |
| Metals in Biota by CRC ICPMS (WET units, Routine) | E440A    | 1548950  | 1     | 15      | 6.6           | 5.0      | ✔          |
| Moisture Content by Gravimetry                    | E144     | 1551440  | 1     | 13      | 7.6           | 5.0      | ✔          |
| Silver in Biota by CRC ICPMS (DRY units, Routine) | E440.Ag  | 1548954  | 1     | 15      | 6.6           | 5.0      | ✔          |
| Silver in Biota by CRC ICPMS (WET units, Routine) | E440A.Ag | 1548951  | 1     | 15      | 6.6           | 5.0      | ✔          |



## Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

| Analytical Methods                                | Method / Lab                              | Matrix | Method Reference                                              | Method Descriptions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------------------------------------|-------------------------------------------|--------|---------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Moisture Content by Gravimetry                    | E144<br>ALS Environmental - Vancouver     | Biota  | Puget Sound Water Quality Authority/CCME PHC in Soil - Tier 1 | Moisture is measured gravimetrically by drying the sample at 105°C. Moisture content is calculated as the weight loss (due to water) divided by the wet weight of the sample, expressed as a percentage.                                                                                                                                                                                                                                                                                                                   |
| Metals in Biota by CRC ICPMS (DRY units, Routine) | E440<br>ALS Environmental - Vancouver     | Biota  | EPA 200.3/6020B (mod)                                         | Tissue samples are homogenized and sub-sampled prior to hotblock digestion with HNO <sub>3</sub> , HCl, and H <sub>2</sub> O <sub>2</sub> . Analysis is by Collision/Reaction Cell ICPMS.<br><br>Method Limitation: This method employs a strong acid/peroxide digestion, and is intended to provide a conservative estimate of bio-available metals. Near complete recoveries are achieved for most toxicologically important metals, but elements associated with recalcitrant minerals may be only partially recovered. |
| Silver in Biota by CRC ICPMS (DRY units, Routine) | E440.Ag<br>ALS Environmental - Vancouver  | Biota  | EPA 200.3/6020B (mod)                                         | Tissue samples are homogenized and sub-sampled prior to hotblock digestion with HNO <sub>3</sub> , HCl, and H <sub>2</sub> O <sub>2</sub> . Analysis is by Collision/Reaction Cell ICPMS.<br><br>Method Limitation: This method employs a strong acid/peroxide digestion, and is intended to provide a conservative estimate of bio-available metals. Near complete recoveries are achieved for most toxicologically important metals, but elements associated with recalcitrant minerals may be only partially recovered. |
| Metals in Biota by CRC ICPMS (WET units, Routine) | E440A<br>ALS Environmental - Vancouver    | Biota  | EPA 200.3/6020B (mod)                                         | Tissue samples are homogenized and sub-sampled prior to hotblock digestion with HNO <sub>3</sub> , HCl, and H <sub>2</sub> O <sub>2</sub> . Analysis is by Collision/Reaction Cell ICPMS.<br><br>Method Limitation: This method employs a strong acid/peroxide digestion, and is intended to provide a conservative estimate of bio-available metals. Near complete recoveries are achieved for most toxicologically important metals, but elements associated with recalcitrant minerals may be only partially recovered. |
| Silver in Biota by CRC ICPMS (WET units, Routine) | E440A.Ag<br>ALS Environmental - Vancouver | Biota  | EPA 200.3/6020B (mod)                                         | Tissue samples are homogenized and sub-sampled prior to hotblock digestion with HNO <sub>3</sub> , HCl, and H <sub>2</sub> O <sub>2</sub> . Analysis is by Collision/Reaction Cell ICPMS.<br><br>Method Limitation: This method employs a strong acid/peroxide digestion, and is intended to provide a conservative estimate of bio-available metals. Near complete recoveries are achieved for most toxicologically important metals, but elements associated with recalcitrant minerals may be only partially recovered. |
| Mercury in Biota by CVAAS (DRY units, Routine)    | E510<br>ALS Environmental - Vancouver     | Biota  | EPA 200.3/1631 Appendix (mod)                                 | Samples are homogenized and sub-sampled prior to hotblock digestion with HNO <sub>3</sub> , HCl, and H <sub>2</sub> O <sub>2</sub> . Analysis is by CVAAS.                                                                                                                                                                                                                                                                                                                                                                 |
| Mercury in Biota by CVAAS (WET units, Routine)    | E510A<br>ALS Environmental - Vancouver    | Biota  | EPA 200.3/1631 Appendix (mod)                                 | Samples are homogenized and sub-sampled prior to hotblock digestion with HNO <sub>3</sub> , HCl, and H <sub>2</sub> O <sub>2</sub> . Analysis is by CVAAS.                                                                                                                                                                                                                                                                                                                                                                 |



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Project : SHTC 11-086



| Preparation Methods                | Method / Lab                                  | Matrix | Method Reference | Method Descriptions                                                                                                                                                                        |
|------------------------------------|-----------------------------------------------|--------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Metals and Mercury Biota Digestion | EP440<br><br>ALS Environmental -<br>Vancouver | Biota  | EPA 200.3        | This method uses a heated strong acid digestion with HNO <sub>3</sub> , HCl, and H <sub>2</sub> O <sub>2</sub> and is intended to provide a conservative estimate of bio-available metals. |

QUALITY CONTROL REPORT

|                         |                                                           |                         |                                                           |
|-------------------------|-----------------------------------------------------------|-------------------------|-----------------------------------------------------------|
| Work Order              | : EO2404299                                               | Page                    | : 1 of 13                                                 |
| Client                  | : Wildland Management Consultants Ltd.                    | Laboratory              | : ALS Environmental - Edmonton                            |
| Contact                 | : Lawrence Brusnyk                                        | Account Manager         | : Dana Brown                                              |
| Address                 | : 50345 Range Road 222<br>Leduc County AB Canada T0B 3M2  | Address                 | : 9450 - 17 Avenue NW<br>Edmonton, Alberta Canada T6N 1M9 |
| Telephone               | : 780-915-4856                                            | Telephone               | : 7804136472                                              |
| Project                 | : SHTC 11-086                                             | Date Samples Received   | : 05-Jun-2024 09:43                                       |
| PO                      | : ----                                                    | Date Analysis Commenced | : 18-Jul-2024                                             |
| C-O-C number            | : ----                                                    | Issue Date              | : 20-Jul-2024 08:45                                       |
| Sampler                 | : LdB/JK                                                  |                         |                                                           |
| Site                    | : ----                                                    |                         |                                                           |
| Quote number            | : EO24-WMCL100-0001 Swanhillis -Metals and Prep for Voles |                         |                                                           |
| No. of samples received | : 10                                                      |                         |                                                           |
| No. of samples analysed | : 10                                                      |                         |                                                           |

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Reference Material (RM) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

| Signatories  | Position                                | Laboratory Department                       |
|--------------|-----------------------------------------|---------------------------------------------|
| Dan Gebert   | Laboratory Analyst                      | Vancouver Metals, Burnaby, British Columbia |
| Kevin Duarte | Supervisor - Metals ICP Instrumentation | Vancouver Metals, Burnaby, British Columbia |
| Owen Cheng   |                                         | Vancouver Metals, Burnaby, British Columbia |



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## General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

### Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.

CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.

DQO = Data Quality Objective.

LOR = Limit of Reporting (detection limit).

RPD = Relative Percent Difference

# = Indicates a QC result that did not meet the ALS DQO.

## Workorder Comments

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Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

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Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

|                          |                  |            |            |        | Laboratory Duplicate (DUP) Report |       |                 |                  |                      |                  |           |
|--------------------------|------------------|------------|------------|--------|-----------------------------------|-------|-----------------|------------------|----------------------|------------------|-----------|
| Laboratory sample ID     | Client sample ID | Analyte    | CAS Number | Method | LOR                               | Unit  | Original Result | Duplicate Result | RPD(%) or Difference | Duplicate Limits | Qualifier |
| Metals (QC Lot: 1548949) |                  |            |            |        |                                   |       |                 |                  |                      |                  |           |
| EO2404298-001            | Anonymous        | Aluminum   | 7429-90-5  | E440   | 2.0                               | mg/kg | 49.1            | 55.1             | 11.5%                | 40%              | ----      |
|                          |                  | Antimony   | 7440-36-0  | E440   | 0.010                             | mg/kg | <0.010          | <0.010           | 0                    | Diff <2x LOR     | ----      |
|                          |                  | Arsenic    | 7440-38-2  | E440   | 0.020                             | mg/kg | 0.066           | 0.061            | 0.006                | Diff <2x LOR     | ----      |
|                          |                  | Barium     | 7440-39-3  | E440   | 0.050                             | mg/kg | 44.2            | 56.3             | 23.9%                | 40%              | ----      |
|                          |                  | Beryllium  | 7440-41-7  | E440   | 0.010                             | mg/kg | <0.010          | <0.010           | 0                    | Diff <2x LOR     | ----      |
|                          |                  | Bismuth    | 7440-69-9  | E440   | 0.010                             | mg/kg | <0.010          | <0.010           | 0                    | Diff <2x LOR     | ----      |
|                          |                  | Boron      | 7440-42-8  | E440   | 1.0                               | mg/kg | 3.2             | 2.9              | 0.3                  | Diff <2x LOR     | ----      |
|                          |                  | Cadmium    | 7440-43-9  | E440   | 0.0050                            | mg/kg | 0.262           | 0.256            | 2.07%                | 40%              | ----      |
|                          |                  | Calcium    | 7440-70-2  | E440   | 20                                | mg/kg | 37400           | 44200            | 16.6%                | 60%              | ----      |
|                          |                  | Cesium     | 7440-46-2  | E440   | 0.0050                            | mg/kg | 0.0534          | 0.0504           | 5.71%                | 40%              | ----      |
|                          |                  | Chromium   | 7440-47-3  | E440   | 0.050                             | mg/kg | 0.390           | 0.213            | 58.8%                | 40%              | DUP-H     |
|                          |                  | Cobalt     | 7440-48-4  | E440   | 0.020                             | mg/kg | 0.318           | 0.310            | 2.52%                | 40%              | ----      |
|                          |                  | Copper     | 7440-50-8  | E440   | 0.10                              | mg/kg | 11.1            | 11.2             | 0.639%               | 40%              | ----      |
|                          |                  | Iron       | 7439-89-6  | E440   | 3.0                               | mg/kg | 367             | 344              | 6.57%                | 40%              | ----      |
|                          |                  | Lead       | 7439-92-1  | E440   | 0.020                             | mg/kg | 0.156           | 0.169            | 8.06%                | 40%              | ----      |
|                          |                  | Lithium    | 7439-93-2  | E440   | 0.50                              | mg/kg | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ----      |
|                          |                  | Magnesium  | 7439-95-4  | E440   | 2.0                               | mg/kg | 1700            | 1660             | 2.82%                | 40%              | ----      |
|                          |                  | Manganese  | 7439-96-5  | E440   | 0.050                             | mg/kg | 18.0            | 18.8             | 4.39%                | 40%              | ----      |
|                          |                  | Molybdenum | 7439-98-7  | E440   | 0.020                             | mg/kg | 0.501           | 0.485            | 3.25%                | 40%              | ----      |
|                          |                  | Nickel     | 7440-02-0  | E440   | 0.20                              | mg/kg | 0.72            | 0.68             | 0.04                 | Diff <2x LOR     | ----      |
|                          |                  | Phosphorus | 7723-14-0  | E440   | 10                                | mg/kg | 28300           | 31700            | 11.2%                | 40%              | ----      |
|                          |                  | Potassium  | 7440-09-7  | E440   | 20                                | mg/kg | 12300           | 12400            | 0.983%               | 40%              | ----      |
|                          |                  | Rubidium   | 7440-17-7  | E440   | 0.050                             | mg/kg | 24.5            | 23.8             | 3.14%                | 40%              | ----      |
|                          |                  | Selenium   | 7782-49-2  | E440   | 0.050                             | mg/kg | 0.738           | 0.721            | 2.33%                | 40%              | ----      |
|                          |                  | Sodium     | 7440-23-5  | E440   | 20                                | mg/kg | 5700            | 5650             | 0.858%               | 40%              | ----      |
|                          |                  | Strontium  | 7440-24-6  | E440   | 0.050                             | mg/kg | 15.4            | 18.5             | 17.9%                | 60%              | ----      |
|                          |                  | Tellurium  | 13494-80-9 | E440   | 0.020                             | mg/kg | <0.020          | <0.020           | 0                    | Diff <2x LOR     | ----      |
|                          |                  | Thallium   | 7440-28-0  | E440   | 0.0020                            | mg/kg | <0.0020         | <0.0020          | 0                    | Diff <2x LOR     | ----      |
|                          |                  | Tin        | 7440-31-5  | E440   | 0.10                              | mg/kg | 0.22            | 0.20             | 0.01                 | Diff <2x LOR     | ----      |
|                          |                  | Uranium    | 7440-61-1  | E440   | 0.0020                            | mg/kg | 0.0038          | 0.0040           | 0.0003               | Diff <2x LOR     | ----      |



Sub-Matrix: Biota

| Sub-Matrix: Biota                    |                  |            |            |        | Laboratory Duplicate (DUP) Report |           |                 |                  |                      |                  |           |
|--------------------------------------|------------------|------------|------------|--------|-----------------------------------|-----------|-----------------|------------------|----------------------|------------------|-----------|
| Laboratory sample ID                 | Client sample ID | Analyte    | CAS Number | Method | LOR                               | Unit      | Original Result | Duplicate Result | RPD(%) or Difference | Duplicate Limits | Qualifier |
| Metals (QC Lot: 1548949) - continued |                  |            |            |        |                                   |           |                 |                  |                      |                  |           |
| EO2404298-001                        | Anonymous        | Vanadium   | 7440-62-2  | E440   | 0.10                              | mg/kg     | 0.13            | 0.14             | 0.01                 | Diff <2x LOR     | ----      |
|                                      |                  | Zinc       | 7440-66-6  | E440   | 0.50                              | mg/kg     | 104             | 108              | 3.81%                | 40%              | ----      |
|                                      |                  | Zirconium  | 7440-67-7  | E440   | 0.40                              | mg/kg     | <0.40           | <0.40            | 0                    | Diff <2x LOR     | ----      |
| Metals (QC Lot: 1548950)             |                  |            |            |        |                                   |           |                 |                  |                      |                  |           |
| EO2404298-001                        | Anonymous        | Aluminum   | 7429-90-5  | E440A  | 0.40                              | mg/kg wwt | 13.4            | 15.0             | 11.5%                | 40%              | ----      |
|                                      |                  | Antimony   | 7440-36-0  | E440A  | 0.0020                            | mg/kg wwt | <0.0020         | <0.0020          | 0                    | Diff <2x LOR     | ----      |
|                                      |                  | Arsenic    | 7440-38-2  | E440A  | 0.0040                            | mg/kg wwt | 0.0181          | 0.0165           | 0.0016               | Diff <2x LOR     | ----      |
|                                      |                  | Barium     | 7440-39-3  | E440A  | 0.010                             | mg/kg wwt | 12.0            | 15.3             | 23.9%                | 40%              | ----      |
|                                      |                  | Beryllium  | 7440-41-7  | E440A  | 0.0020                            | mg/kg wwt | <0.0020         | <0.0020          | 0                    | Diff <2x LOR     | ----      |
|                                      |                  | Bismuth    | 7440-69-9  | E440A  | 0.0020                            | mg/kg wwt | <0.0020         | <0.0020          | 0                    | Diff <2x LOR     | ----      |
|                                      |                  | Boron      | 7440-42-8  | E440A  | 0.20                              | mg/kg wwt | 0.87            | 0.79             | 0.07                 | Diff <2x LOR     | ----      |
|                                      |                  | Cadmium    | 7440-43-9  | E440A  | 0.0010                            | mg/kg wwt | 0.0713          | 0.0698           | 2.07%                | 40%              | ----      |
|                                      |                  | Calcium    | 7440-70-2  | E440A  | 4.0                               | mg/kg wwt | 10200           | 12000            | 16.6%                | 60%              | ----      |
|                                      |                  | Cesium     | 7440-46-2  | E440A  | 0.0010                            | mg/kg wwt | 0.0146          | 0.0137           | 5.71%                | 40%              | ----      |
|                                      |                  | Chromium   | 7440-47-3  | E440A  | 0.010                             | mg/kg wwt | 0.106           | 0.058            | 58.8%                | 40%              | DUP-H     |
|                                      |                  | Cobalt     | 7440-48-4  | E440A  | 0.0040                            | mg/kg wwt | 0.0866          | 0.0845           | 2.52%                | 40%              | ----      |
|                                      |                  | Copper     | 7440-50-8  | E440A  | 0.020                             | mg/kg wwt | 3.04            | 3.06             | 0.639%               | 40%              | ----      |
|                                      |                  | Iron       | 7439-89-6  | E440A  | 0.60                              | mg/kg wwt | 100             | 93.8             | 6.57%                | 40%              | ----      |
|                                      |                  | Lead       | 7439-92-1  | E440A  | 0.0040                            | mg/kg wwt | 0.0425          | 0.0461           | 8.06%                | 40%              | ----      |
|                                      |                  | Lithium    | 7439-93-2  | E440A  | 0.10                              | mg/kg wwt | <0.10           | <0.10            | 0                    | Diff <2x LOR     | ----      |
|                                      |                  | Magnesium  | 7439-95-4  | E440A  | 0.40                              | mg/kg wwt | 465             | 452              | 2.82%                | 40%              | ----      |
|                                      |                  | Manganese  | 7439-96-5  | E440A  | 0.010                             | mg/kg wwt | 4.92            | 5.14             | 4.39%                | 40%              | ----      |
|                                      |                  | Molybdenum | 7439-98-7  | E440A  | 0.0040                            | mg/kg wwt | 0.136           | 0.132            | 3.25%                | 40%              | ----      |
|                                      |                  | Nickel     | 7440-02-0  | E440A  | 0.040                             | mg/kg wwt | 0.195           | 0.184            | 0.011                | Diff <2x LOR     | ----      |
|                                      |                  | Phosphorus | 7723-14-0  | E440A  | 2.0                               | mg/kg wwt | 7730            | 8640             | 11.2%                | 40%              | ----      |
|                                      |                  | Potassium  | 7440-09-7  | E440A  | 4.0                               | mg/kg wwt | 3360            | 3390             | 0.983%               | 40%              | ----      |
|                                      |                  | Rubidium   | 7440-17-7  | E440A  | 0.010                             | mg/kg wwt | 6.68            | 6.48             | 3.14%                | 40%              | ----      |
|                                      |                  | Selenium   | 7782-49-2  | E440A  | 0.010                             | mg/kg wwt | 0.201           | 0.196            | 2.33%                | 40%              | ----      |
|                                      |                  | Sodium     | 7440-23-5  | E440A  | 4.0                               | mg/kg wwt | 1550            | 1540             | 0.858%               | 40%              | ----      |
|                                      |                  | Strontium  | 7440-24-6  | E440A  | 0.010                             | mg/kg wwt | 4.21            | 5.04             | 17.9%                | 60%              | ----      |
|                                      |                  | Tellurium  | 13494-80-9 | E440A  | 0.0040                            | mg/kg wwt | <0.0040         | <0.0040          | 0                    | Diff <2x LOR     | ----      |
|                                      |                  | Thallium   | 7440-28-0  | E440A  | 0.00040                           | mg/kg wwt | 0.00041         | 0.00044          | 0.00003              | Diff <2x LOR     | ----      |
|                                      |                  | Tin        | 7440-31-5  | E440A  | 0.020                             | mg/kg wwt | 0.059           | 0.055            | 0.004                | Diff <2x LOR     | ----      |
|                                      |                  | Uranium    | 7440-61-1  | E440A  | 0.00040                           | mg/kg wwt | 0.00103         | 0.00110          | 0.00007              | Diff <2x LOR     | ----      |



| Sub-Matrix: Biota                    |                  |           |            |          | Laboratory Duplicate (DUP) Report |          |                 |                  |                      |                  |           |
|--------------------------------------|------------------|-----------|------------|----------|-----------------------------------|----------|-----------------|------------------|----------------------|------------------|-----------|
| Laboratory sample ID                 | Client sample ID | Analyte   | CAS Number | Method   | LOR                               | Unit     | Original Result | Duplicate Result | RPD(%) or Difference | Duplicate Limits | Qualifier |
| Metals (QC Lot: 1548950) - continued |                  |           |            |          |                                   |          |                 |                  |                      |                  |           |
| EO2404298-001                        | Anonymous        | Vanadium  | 7440-62-2  | E440A    | 0.020                             | mg/kg ww | 0.036           | 0.039            | 0.003                | Diff <2x LOR     | ----      |
|                                      |                  | Zinc      | 7440-66-6  | E440A    | 0.10                              | mg/kg ww | 28.2            | 29.3             | 3.81%                | 40%              | ----      |
|                                      |                  | Zirconium | 7440-67-7  | E440A    | 0.080                             | mg/kg ww | <0.080          | <0.080           | 0                    | Diff <2x LOR     | ----      |
| Metals (QC Lot: 1548951)             |                  |           |            |          |                                   |          |                 |                  |                      |                  |           |
| EO2404298-001                        | Anonymous        | Silver    | 7440-22-4  | E440A.Ag | 0.0010                            | mg/kg ww | 0.0014          | 0.0012           | 0.0002               | Diff <2x LOR     | ----      |
| Metals (QC Lot: 1548952)             |                  |           |            |          |                                   |          |                 |                  |                      |                  |           |
| EO2404298-001                        | Anonymous        | Mercury   | 7439-97-6  | E510A    | 0.0015                            | mg/kg ww | 0.0120          | 0.0120           | 0.210%               | 40%              | ----      |
| Metals (QC Lot: 1548953)             |                  |           |            |          |                                   |          |                 |                  |                      |                  |           |
| EO2404298-001                        | Anonymous        | Mercury   | 7439-97-6  | E510     | 0.0055                            | mg/kg    | 0.0441          | 0.0440           | 0.210%               | 40%              | ----      |
| Metals (QC Lot: 1548954)             |                  |           |            |          |                                   |          |                 |                  |                      |                  |           |
| EO2404298-001                        | Anonymous        | Silver    | 7440-22-4  | E440.Ag  | 0.0050                            | mg/kg    | 0.0052          | <0.0050          | 0.0002               | Diff <2x LOR     | ----      |

Qualifiers

| Qualifier | Description                                                     |
|-----------|-----------------------------------------------------------------|
| DUP-H     | Duplicate results outside ALS DQO, due to sample heterogeneity. |



Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: Biota

| Analyte                         | CAS Number | Method | LOR   | Unit  | Result  | Qualifier |
|---------------------------------|------------|--------|-------|-------|---------|-----------|
| Physical Tests (QCLot: 1551440) |            |        |       |       |         |           |
| Moisture                        | ---        | E144   | 0.5   | %     | <0.50   | ---       |
| Metals (QCLot: 1548949)         |            |        |       |       |         |           |
| Aluminum                        | 7429-90-5  | E440   | 2     | mg/kg | <2.0    | ---       |
| Antimony                        | 7440-36-0  | E440   | 0.01  | mg/kg | <0.010  | ---       |
| Arsenic                         | 7440-38-2  | E440   | 0.02  | mg/kg | <0.020  | ---       |
| Barium                          | 7440-39-3  | E440   | 0.05  | mg/kg | <0.050  | ---       |
| Beryllium                       | 7440-41-7  | E440   | 0.01  | mg/kg | <0.010  | ---       |
| Bismuth                         | 7440-69-9  | E440   | 0.01  | mg/kg | <0.010  | ---       |
| Boron                           | 7440-42-8  | E440   | 1     | mg/kg | <1.0    | ---       |
| Cadmium                         | 7440-43-9  | E440   | 0.005 | mg/kg | <0.0050 | ---       |
| Calcium                         | 7440-70-2  | E440   | 20    | mg/kg | <20     | ---       |
| Cesium                          | 7440-46-2  | E440   | 0.005 | mg/kg | <0.0050 | ---       |
| Chromium                        | 7440-47-3  | E440   | 0.05  | mg/kg | <0.050  | ---       |
| Cobalt                          | 7440-48-4  | E440   | 0.02  | mg/kg | <0.020  | ---       |
| Copper                          | 7440-50-8  | E440   | 0.1   | mg/kg | <0.10   | ---       |
| Iron                            | 7439-89-6  | E440   | 3     | mg/kg | <3.0    | ---       |
| Lead                            | 7439-92-1  | E440   | 0.02  | mg/kg | <0.020  | ---       |
| Lithium                         | 7439-93-2  | E440   | 0.5   | mg/kg | <0.50   | ---       |
| Magnesium                       | 7439-95-4  | E440   | 2     | mg/kg | <2.0    | ---       |
| Manganese                       | 7439-96-5  | E440   | 0.05  | mg/kg | <0.050  | ---       |
| Molybdenum                      | 7439-98-7  | E440   | 0.02  | mg/kg | <0.020  | ---       |
| Nickel                          | 7440-02-0  | E440   | 0.2   | mg/kg | <0.20   | ---       |
| Phosphorus                      | 7723-14-0  | E440   | 10    | mg/kg | <10     | ---       |
| Potassium                       | 7440-09-7  | E440   | 20    | mg/kg | <20     | ---       |
| Rubidium                        | 7440-17-7  | E440   | 0.05  | mg/kg | <0.050  | ---       |
| Selenium                        | 7782-49-2  | E440   | 0.05  | mg/kg | <0.050  | ---       |
| Sodium                          | 7440-23-5  | E440   | 20    | mg/kg | <20     | ---       |
| Strontium                       | 7440-24-6  | E440   | 0.05  | mg/kg | <0.050  | ---       |
| Tellurium                       | 13494-80-9 | E440   | 0.02  | mg/kg | <0.020  | ---       |
| Thallium                        | 7440-28-0  | E440   | 0.002 | mg/kg | <0.0020 | ---       |
| Tin                             | 7440-31-5  | E440   | 0.1   | mg/kg | <0.10   | ---       |
| Uranium                         | 7440-61-1  | E440   | 0.002 | mg/kg | <0.0020 | ---       |



Sub-Matrix: Biota

| Analyte                                    | CAS Number | Method | LOR    | Unit      | Result   | Qualifier |
|--------------------------------------------|------------|--------|--------|-----------|----------|-----------|
| <b>Metals (QCLot: 1548949) - continued</b> |            |        |        |           |          |           |
| Vanadium                                   | 7440-62-2  | E440   | 0.1    | mg/kg     | <0.10    | ----      |
| Zinc                                       | 7440-66-6  | E440   | 0.5    | mg/kg     | <0.50    | ----      |
| Zirconium                                  | 7440-67-7  | E440   | 0.2    | mg/kg     | <0.20    | ----      |
| <b>Metals (QCLot: 1548950)</b>             |            |        |        |           |          |           |
| Aluminum                                   | 7429-90-5  | E440A  | 0.4    | mg/kg wwt | <0.40    | ----      |
| Antimony                                   | 7440-36-0  | E440A  | 0.002  | mg/kg wwt | <0.0020  | ----      |
| Arsenic                                    | 7440-38-2  | E440A  | 0.004  | mg/kg wwt | <0.0040  | ----      |
| Barium                                     | 7440-39-3  | E440A  | 0.01   | mg/kg wwt | <0.010   | ----      |
| Beryllium                                  | 7440-41-7  | E440A  | 0.002  | mg/kg wwt | <0.0020  | ----      |
| Bismuth                                    | 7440-69-9  | E440A  | 0.002  | mg/kg wwt | <0.0020  | ----      |
| Boron                                      | 7440-42-8  | E440A  | 0.2    | mg/kg wwt | <0.20    | ----      |
| Cadmium                                    | 7440-43-9  | E440A  | 0.001  | mg/kg wwt | <0.0010  | ----      |
| Calcium                                    | 7440-70-2  | E440A  | 4      | mg/kg wwt | <4.0     | ----      |
| Cesium                                     | 7440-46-2  | E440A  | 0.001  | mg/kg wwt | <0.0010  | ----      |
| Chromium                                   | 7440-47-3  | E440A  | 0.01   | mg/kg wwt | <0.010   | ----      |
| Cobalt                                     | 7440-48-4  | E440A  | 0.004  | mg/kg wwt | <0.0040  | ----      |
| Copper                                     | 7440-50-8  | E440A  | 0.02   | mg/kg wwt | <0.020   | ----      |
| Iron                                       | 7439-89-6  | E440A  | 0.6    | mg/kg wwt | <0.60    | ----      |
| Lead                                       | 7439-92-1  | E440A  | 0.004  | mg/kg wwt | <0.0040  | ----      |
| Lithium                                    | 7439-93-2  | E440A  | 0.1    | mg/kg wwt | <0.10    | ----      |
| Magnesium                                  | 7439-95-4  | E440A  | 0.4    | mg/kg wwt | <0.40    | ----      |
| Manganese                                  | 7439-96-5  | E440A  | 0.01   | mg/kg wwt | <0.010   | ----      |
| Molybdenum                                 | 7439-98-7  | E440A  | 0.004  | mg/kg wwt | <0.0040  | ----      |
| Nickel                                     | 7440-02-0  | E440A  | 0.04   | mg/kg wwt | <0.040   | ----      |
| Phosphorus                                 | 7723-14-0  | E440A  | 2      | mg/kg wwt | <2.0     | ----      |
| Potassium                                  | 7440-09-7  | E440A  | 4      | mg/kg wwt | <4.0     | ----      |
| Rubidium                                   | 7440-17-7  | E440A  | 0.01   | mg/kg wwt | <0.010   | ----      |
| Selenium                                   | 7782-49-2  | E440A  | 0.01   | mg/kg wwt | <0.010   | ----      |
| Sodium                                     | 7440-23-5  | E440A  | 4      | mg/kg wwt | <4.0     | ----      |
| Strontium                                  | 7440-24-6  | E440A  | 0.01   | mg/kg wwt | <0.010   | ----      |
| Tellurium                                  | 13494-80-9 | E440A  | 0.004  | mg/kg wwt | <0.0040  | ----      |
| Thallium                                   | 7440-28-0  | E440A  | 0.0004 | mg/kg wwt | <0.00040 | ----      |
| Tin                                        | 7440-31-5  | E440A  | 0.02   | mg/kg wwt | <0.020   | ----      |
| Uranium                                    | 7440-61-1  | E440A  | 0.0004 | mg/kg wwt | <0.00040 | ----      |
| Vanadium                                   | 7440-62-2  | E440A  | 0.02   | mg/kg wwt | <0.020   | ----      |





Sub-Matrix: Biota

| Analyte                             | CAS Number | Method   | LOR   | Unit     | Result  | Qualifier |
|-------------------------------------|------------|----------|-------|----------|---------|-----------|
| Metals (QCLot: 1548950) - continued |            |          |       |          |         |           |
| Zinc                                | 7440-66-6  | E440A    | 0.1   | mg/kg ww | <0.10   | ----      |
| Zirconium                           | 7440-67-7  | E440A    | 0.04  | mg/kg ww | <0.040  | ----      |
| Metals (QCLot: 1548951)             |            |          |       |          |         |           |
| Silver                              | 7440-22-4  | E440A.Ag | 0.001 | mg/kg ww | <0.0010 | ----      |
| Metals (QCLot: 1548952)             |            |          |       |          |         |           |
| Mercury                             | 7439-97-6  | E510A    | 0.001 | mg/kg ww | <0.0010 | ----      |
| Metals (QCLot: 1548953)             |            |          |       |          |         |           |
| Mercury                             | 7439-97-6  | E510     | 0.005 | mg/kg    | <0.0050 | ----      |
| Metals (QCLot: 1548954)             |            |          |       |          |         |           |
| Silver                              | 7440-22-4  | E440.Ag  | 0.005 | mg/kg    | <0.0050 | ----      |



Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: Biota

|                                 |            |        |       |       | Laboratory Control Sample (LCS) Report |              |                     |      |           |
|---------------------------------|------------|--------|-------|-------|----------------------------------------|--------------|---------------------|------|-----------|
|                                 |            |        |       |       | Spike                                  | Recovery (%) | Recovery Limits (%) |      |           |
| Analyte                         | CAS Number | Method | LOR   | Unit  | Target Concentration                   | LCS          | Low                 | High | Qualifier |
| Physical Tests (QCLot: 1551440) |            |        |       |       |                                        |              |                     |      |           |
| Moisture                        | ----       | E144   | 0.5   | %     | 50 %                                   | 100          | 90.0                | 110  | ----      |
| Metals (QCLot: 1548949)         |            |        |       |       |                                        |              |                     |      |           |
| Aluminum                        | 7429-90-5  | E440   | 2     | mg/kg | 20 mg/kg                               | 104          | 80.0                | 120  | ----      |
| Antimony                        | 7440-36-0  | E440   | 0.01  | mg/kg | 10 mg/kg                               | 109          | 80.0                | 120  | ----      |
| Arsenic                         | 7440-38-2  | E440   | 0.02  | mg/kg | 10 mg/kg                               | 111          | 80.0                | 120  | ----      |
| Barium                          | 7440-39-3  | E440   | 0.05  | mg/kg | 2.5 mg/kg                              | 102          | 80.0                | 120  | ----      |
| Beryllium                       | 7440-41-7  | E440   | 0.01  | mg/kg | 1 mg/kg                                | 102          | 80.0                | 120  | ----      |
| Bismuth                         | 7440-69-9  | E440   | 0.01  | mg/kg | 10 mg/kg                               | 94.2         | 80.0                | 120  | ----      |
| Boron                           | 7440-42-8  | E440   | 1     | mg/kg | 10 mg/kg                               | 106          | 80.0                | 120  | ----      |
| Cadmium                         | 7440-43-9  | E440   | 0.005 | mg/kg | 1 mg/kg                                | 94.6         | 80.0                | 120  | ----      |
| Calcium                         | 7440-70-2  | E440   | 20    | mg/kg | 500 mg/kg                              | 100          | 80.0                | 120  | ----      |
| Cesium                          | 7440-46-2  | E440   | 0.005 | mg/kg | 0.5 mg/kg                              | 101          | 80.0                | 120  | ----      |
| Chromium                        | 7440-47-3  | E440   | 0.05  | mg/kg | 2.5 mg/kg                              | 98.8         | 80.0                | 120  | ----      |
| Cobalt                          | 7440-48-4  | E440   | 0.02  | mg/kg | 2.5 mg/kg                              | 97.6         | 80.0                | 120  | ----      |
| Copper                          | 7440-50-8  | E440   | 0.1   | mg/kg | 2.5 mg/kg                              | 96.1         | 80.0                | 120  | ----      |
| Iron                            | 7439-89-6  | E440   | 3     | mg/kg | 10 mg/kg                               | 99.3         | 80.0                | 120  | ----      |
| Lead                            | 7439-92-1  | E440   | 0.02  | mg/kg | 5 mg/kg                                | 94.9         | 80.0                | 120  | ----      |
| Lithium                         | 7439-93-2  | E440   | 0.5   | mg/kg | 2.5 mg/kg                              | 108          | 80.0                | 120  | ----      |
| Magnesium                       | 7439-95-4  | E440   | 2     | mg/kg | 500 mg/kg                              | 98.0         | 80.0                | 120  | ----      |
| Manganese                       | 7439-96-5  | E440   | 0.05  | mg/kg | 2.5 mg/kg                              | 99.7         | 80.0                | 120  | ----      |
| Molybdenum                      | 7439-98-7  | E440   | 0.02  | mg/kg | 2.5 mg/kg                              | 112          | 80.0                | 120  | ----      |
| Nickel                          | 7440-02-0  | E440   | 0.2   | mg/kg | 5 mg/kg                                | 96.4         | 80.0                | 120  | ----      |
| Phosphorus                      | 7723-14-0  | E440   | 10    | mg/kg | 100 mg/kg                              | 116          | 80.0                | 120  | ----      |
| Potassium                       | 7440-09-7  | E440   | 20    | mg/kg | 500 mg/kg                              | 105          | 80.0                | 120  | ----      |
| Rubidium                        | 7440-17-7  | E440   | 0.05  | mg/kg | 1 mg/kg                                | 98.8         | 80.0                | 120  | ----      |
| Selenium                        | 7782-49-2  | E440   | 0.05  | mg/kg | 10 mg/kg                               | 103          | 80.0                | 120  | ----      |
| Sodium                          | 7440-23-5  | E440   | 20    | mg/kg | 500 mg/kg                              | 103          | 80.0                | 120  | ----      |
| Strontium                       | 7440-24-6  | E440   | 0.05  | mg/kg | 2.5 mg/kg                              | 105          | 80.0                | 120  | ----      |
| Tellurium                       | 13494-80-9 | E440   | 0.02  | mg/kg | 1 mg/kg                                | 110          | 80.0                | 120  | ----      |
| Thallium                        | 7440-28-0  | E440   | 0.002 | mg/kg | 10 mg/kg                               | 95.6         | 80.0                | 120  | ----      |
| Tin                             | 7440-31-5  | E440   | 0.1   | mg/kg | 5 mg/kg                                | 103          | 80.0                | 120  | ----      |
| Uranium                         | 7440-61-1  | E440   | 0.002 | mg/kg | 0.05 mg/kg                             | 95.6         | 80.0                | 120  | ----      |



Sub-Matrix: Biota

| Sub-Matrix: Biota                   |            |        |        |           | Laboratory Control Sample (LCS) Report |              |                     |      |           |
|-------------------------------------|------------|--------|--------|-----------|----------------------------------------|--------------|---------------------|------|-----------|
|                                     |            |        |        |           | Spike                                  | Recovery (%) | Recovery Limits (%) |      |           |
| Analyte                             | CAS Number | Method | LOR    | Unit      | Target Concentration                   | LCS          | Low                 | High | Qualifier |
| Metals (QCLot: 1548949) - continued |            |        |        |           |                                        |              |                     |      |           |
| Vanadium                            | 7440-62-2  | E440   | 0.1    | mg/kg     | 5 mg/kg                                | 99.1         | 80.0                | 120  | ----      |
| Zinc                                | 7440-66-6  | E440   | 0.5    | mg/kg     | 5 mg/kg                                | 92.9         | 80.0                | 120  | ----      |
| Zirconium                           | 7440-67-7  | E440   | 0.2    | mg/kg     | 1 mg/kg                                | 108          | 80.0                | 120  | ----      |
| Metals (QCLot: 1548950)             |            |        |        |           |                                        |              |                     |      |           |
| Aluminum                            | 7429-90-5  | E440A  | 0.4    | mg/kg wwt | 20 mg/kg wwt                           | 104          | 80.0                | 120  | ----      |
| Antimony                            | 7440-36-0  | E440A  | 0.002  | mg/kg wwt | 10 mg/kg wwt                           | 109          | 80.0                | 120  | ----      |
| Arsenic                             | 7440-38-2  | E440A  | 0.004  | mg/kg wwt | 10 mg/kg wwt                           | 111          | 80.0                | 120  | ----      |
| Barium                              | 7440-39-3  | E440A  | 0.01   | mg/kg wwt | 2.5 mg/kg wwt                          | 102          | 80.0                | 120  | ----      |
| Beryllium                           | 7440-41-7  | E440A  | 0.002  | mg/kg wwt | 1 mg/kg wwt                            | 102          | 80.0                | 120  | ----      |
| Bismuth                             | 7440-69-9  | E440A  | 0.002  | mg/kg wwt | 10 mg/kg wwt                           | 94.2         | 80.0                | 120  | ----      |
| Boron                               | 7440-42-8  | E440A  | 0.2    | mg/kg wwt | 10 mg/kg wwt                           | 106          | 80.0                | 120  | ----      |
| Cadmium                             | 7440-43-9  | E440A  | 0.001  | mg/kg wwt | 1 mg/kg wwt                            | 94.6         | 80.0                | 120  | ----      |
| Calcium                             | 7440-70-2  | E440A  | 4      | mg/kg wwt | 500 mg/kg wwt                          | 100          | 80.0                | 120  | ----      |
| Cesium                              | 7440-46-2  | E440A  | 0.001  | mg/kg wwt | 0.5 mg/kg wwt                          | 101          | 80.0                | 120  | ----      |
| Chromium                            | 7440-47-3  | E440A  | 0.01   | mg/kg wwt | 2.5 mg/kg wwt                          | 98.8         | 80.0                | 120  | ----      |
| Cobalt                              | 7440-48-4  | E440A  | 0.004  | mg/kg wwt | 2.5 mg/kg wwt                          | 97.6         | 80.0                | 120  | ----      |
| Copper                              | 7440-50-8  | E440A  | 0.02   | mg/kg wwt | 2.5 mg/kg wwt                          | 96.1         | 80.0                | 120  | ----      |
| Iron                                | 7439-89-6  | E440A  | 0.6    | mg/kg wwt | 10 mg/kg wwt                           | 99.3         | 80.0                | 120  | ----      |
| Lead                                | 7439-92-1  | E440A  | 0.004  | mg/kg wwt | 5 mg/kg wwt                            | 94.9         | 80.0                | 120  | ----      |
| Lithium                             | 7439-93-2  | E440A  | 0.1    | mg/kg wwt | 2.5 mg/kg wwt                          | 108          | 80.0                | 120  | ----      |
| Magnesium                           | 7439-95-4  | E440A  | 0.4    | mg/kg wwt | 500 mg/kg wwt                          | 98.0         | 80.0                | 120  | ----      |
| Manganese                           | 7439-96-5  | E440A  | 0.01   | mg/kg wwt | 2.5 mg/kg wwt                          | 99.7         | 80.0                | 120  | ----      |
| Molybdenum                          | 7439-98-7  | E440A  | 0.004  | mg/kg wwt | 2.5 mg/kg wwt                          | 112          | 80.0                | 120  | ----      |
| Nickel                              | 7440-02-0  | E440A  | 0.04   | mg/kg wwt | 5 mg/kg wwt                            | 96.4         | 80.0                | 120  | ----      |
| Phosphorus                          | 7723-14-0  | E440A  | 2      | mg/kg wwt | 100 mg/kg wwt                          | 116          | 80.0                | 120  | ----      |
| Potassium                           | 7440-09-7  | E440A  | 4      | mg/kg wwt | 500 mg/kg wwt                          | 105          | 80.0                | 120  | ----      |
| Rubidium                            | 7440-17-7  | E440A  | 0.01   | mg/kg wwt | 1 mg/kg wwt                            | 98.8         | 80.0                | 120  | ----      |
| Selenium                            | 7782-49-2  | E440A  | 0.01   | mg/kg wwt | 10 mg/kg wwt                           | 103          | 80.0                | 120  | ----      |
| Sodium                              | 7440-23-5  | E440A  | 4      | mg/kg wwt | 500 mg/kg wwt                          | 103          | 80.0                | 120  | ----      |
| Strontium                           | 7440-24-6  | E440A  | 0.01   | mg/kg wwt | 2.5 mg/kg wwt                          | 105          | 80.0                | 120  | ----      |
| Tellurium                           | 13494-80-9 | E440A  | 0.004  | mg/kg wwt | 1 mg/kg wwt                            | 110          | 80.0                | 120  | ----      |
| Thallium                            | 7440-28-0  | E440A  | 0.0004 | mg/kg wwt | 10 mg/kg wwt                           | 95.6         | 80.0                | 120  | ----      |
| Tin                                 | 7440-31-5  | E440A  | 0.02   | mg/kg wwt | 5 mg/kg wwt                            | 103          | 80.0                | 120  | ----      |
| Uranium                             | 7440-61-1  | E440A  | 0.0004 | mg/kg wwt | 0.05 mg/kg wwt                         | 95.6         | 80.0                | 120  | ----      |
| Vanadium                            | 7440-62-2  | E440A  | 0.02   | mg/kg wwt | 5 mg/kg wwt                            | 99.1         | 80.0                | 120  | ----      |
| Zinc                                | 7440-66-6  | E440A  | 0.1    | mg/kg wwt | 5 mg/kg wwt                            | 92.9         | 80.0                | 120  | ----      |



|                                     |            |          |       |          |                                        |              |                     |      |           |
|-------------------------------------|------------|----------|-------|----------|----------------------------------------|--------------|---------------------|------|-----------|
| Sub-Matrix: Biota                   |            |          |       |          | Laboratory Control Sample (LCS) Report |              |                     |      |           |
|                                     |            |          |       |          | Spike                                  | Recovery (%) | Recovery Limits (%) |      |           |
| Analyte                             | CAS Number | Method   | LOR   | Unit     | Target Concentration                   | LCS          | Low                 | High | Qualifier |
| Metals (QCLot: 1548950) - continued |            |          |       |          |                                        |              |                     |      |           |
| Zirconium                           | 7440-67-7  | E440A    | 0.04  | mg/kg ww | 1 mg/kg ww                             | 108          | 80.0                | 120  | ----      |
| Metals (QCLot: 1548951)             |            |          |       |          |                                        |              |                     |      |           |
| Silver                              | 7440-22-4  | E440A.Ag | 0.001 | mg/kg ww | 1 mg/kg ww                             | 93.0         | 80.0                | 120  | ----      |
| Metals (QCLot: 1548952)             |            |          |       |          |                                        |              |                     |      |           |
| Mercury                             | 7439-97-6  | E510A    | 0.001 | mg/kg ww | 0.02 mg/kg ww                          | 102          | 80.0                | 120  | ----      |
| Metals (QCLot: 1548953)             |            |          |       |          |                                        |              |                     |      |           |
| Mercury                             | 7439-97-6  | E510     | 0.005 | mg/kg    | 0.02 mg/kg                             | 102          | 80.0                | 120  | ----      |
| Metals (QCLot: 1548954)             |            |          |       |          |                                        |              |                     |      |           |
| Silver                              | 7440-22-4  | E440.Ag  | 0.005 | mg/kg    | 1 mg/kg                                | 93.0         | 80.0                | 120  | ----      |



Reference Material (RM) Report

A Reference Material (RM) is a homogenous material with known and well-established analyte concentrations. RMs are processed in an identical manner to test samples, and are used to monitor and control the accuracy and precision of a test method for a typical sample matrix. RM results are expressed as percent recovery of the target analyte concentration. RM targets may be certified target concentrations provided by the RM supplier, or may be ALS long-term mean values (for empirical test methods).

Sub-Matrix:

| Sub-Matrix:             |                       |            |            |        | Reference Material (RM) Report |                    |                     |      |           |
|-------------------------|-----------------------|------------|------------|--------|--------------------------------|--------------------|---------------------|------|-----------|
|                         |                       |            |            |        | RM Target<br>Concentration     | Recovery (%)<br>RM | Recovery Limits (%) |      | Qualifier |
|                         |                       |            |            |        |                                |                    | Low                 | High |           |
| Laboratory<br>sample ID | Reference Material ID | Analyte    | CAS Number | Method |                                |                    |                     |      |           |
| Metals (QCLot: 1548949) |                       |            |            |        |                                |                    |                     |      |           |
| QC-1548949-003          | RM                    | Aluminum   | 7429-90-5  | E440   | 147 mg/kg                      | 83.6               | 70.0                | 130  | ----      |
| QC-1548949-003          | RM                    | Arsenic    | 7440-38-2  | E440   | 14.5 mg/kg                     | 93.7               | 70.0                | 130  | ----      |
| QC-1548949-003          | RM                    | Barium     | 7440-39-3  | E440   | 0.352 mg/kg                    | 94.0               | 70.0                | 130  | ----      |
| QC-1548949-003          | RM                    | Boron      | 7440-42-8  | E440   | 3.47 mg/kg                     | 99.7               | 70.0                | 130  | ----      |
| QC-1548949-003          | RM                    | Cadmium    | 7440-43-9  | E440   | 0.153 mg/kg                    | 92.8               | 70.0                | 130  | ----      |
| QC-1548949-003          | RM                    | Calcium    | 7440-70-2  | E440   | 2010 mg/kg                     | 102                | 70.0                | 130  | ----      |
| QC-1548949-003          | RM                    | Cesium     | 7440-46-2  | E440   | 0.089 mg/kg                    | 103                | 70.0                | 130  | ----      |
| QC-1548949-003          | RM                    | Chromium   | 7440-47-3  | E440   | 0.453 mg/kg                    | 88.6               | 70.0                | 130  | ----      |
| QC-1548949-003          | RM                    | Cobalt     | 7440-48-4  | E440   | 0.057 mg/kg                    | 92.9               | 65.0                | 135  | ----      |
| QC-1548949-003          | RM                    | Copper     | 7440-50-8  | E440   | 3.3 mg/kg                      | 93.2               | 70.0                | 130  | ----      |
| QC-1548949-003          | RM                    | Iron       | 7439-89-6  | E440   | 102 mg/kg                      | 89.8               | 70.0                | 130  | ----      |
| QC-1548949-003          | RM                    | Lead       | 7439-92-1  | E440   | 0.058 mg/kg                    | 96.3               | 70.0                | 130  | ----      |
| QC-1548949-003          | RM                    | Magnesium  | 7439-95-4  | E440   | 899 mg/kg                      | 92.1               | 70.0                | 130  | ----      |
| QC-1548949-003          | RM                    | Manganese  | 7439-96-5  | E440   | 0.948 mg/kg                    | 94.6               | 70.0                | 130  | ----      |
| QC-1548949-003          | RM                    | Molybdenum | 7439-98-7  | E440   | 0.134 mg/kg                    | 99.5               | 70.0                | 130  | ----      |
| QC-1548949-003          | RM                    | Nickel     | 7440-02-0  | E440   | 0.33 mg/kg                     | 88.3               | 40.0                | 160  | ----      |
| QC-1548949-003          | RM                    | Phosphorus | 7723-14-0  | E440   | 6700 mg/kg                     | 98.0               | 70.0                | 130  | ----      |
| QC-1548949-003          | RM                    | Potassium  | 7440-09-7  | E440   | 11600 mg/kg                    | 99.7               | 70.0                | 130  | ----      |
| QC-1548949-003          | RM                    | Rubidium   | 7440-17-7  | E440   | 2.53 mg/kg                     | 97.6               | 70.0                | 130  | ----      |
| QC-1548949-003          | RM                    | Selenium   | 7782-49-2  | E440   | 2.48 mg/kg                     | 98.7               | 70.0                | 130  | ----      |
| QC-1548949-003          | RM                    | Sodium     | 7440-23-5  | E440   | 9620 mg/kg                     | 102                | 70.0                | 130  | ----      |
| QC-1548949-003          | RM                    | Strontium  | 7440-24-6  | E440   | 10.6 mg/kg                     | 104                | 70.0                | 130  | ----      |
| QC-1548949-003          | RM                    | Vanadium   | 7440-62-2  | E440   | 0.269 mg/kg                    | 86.0               | 70.0                | 130  | ----      |
| QC-1548949-003          | RM                    | Zinc       | 7440-66-6  | E440   | 28.7 mg/kg                     | 95.0               | 70.0                | 130  | ----      |
| Metals (QCLot: 1548950) |                       |            |            |        |                                |                    |                     |      |           |
| QC-1548950-003          | RM                    | Aluminum   | 7429-90-5  | E440A  | 147 mg/kg wwt                  | 83.6               | 70.0                | 130  | ----      |
| QC-1548950-003          | RM                    | Arsenic    | 7440-38-2  | E440A  | 14.5 mg/kg wwt                 | 93.7               | 70.0                | 130  | ----      |
| QC-1548950-003          | RM                    | Barium     | 7440-39-3  | E440A  | 0.352 mg/kg wwt                | 94.0               | 70.0                | 130  | ----      |
| QC-1548950-003          | RM                    | Boron      | 7440-42-8  | E440A  | 3.47 mg/kg wwt                 | 99.7               | 70.0                | 130  | ----      |
| QC-1548950-003          | RM                    | Cadmium    | 7440-43-9  | E440A  | 0.153 mg/kg wwt                | 92.8               | 70.0                | 130  | ----      |
| QC-1548950-003          | RM                    | Calcium    | 7440-70-2  | E440A  | 2010 mg/kg wwt                 | 102                | 70.0                | 130  | ----      |
| QC-1548950-003          | RM                    | Cesium     | 7440-46-2  | E440A  | 0.089 mg/kg wwt                | 103                | 70.0                | 130  | ----      |
| QC-1548950-003          | RM                    | Chromium   | 7440-47-3  | E440A  | 0.453 mg/kg wwt                | 88.6               | 70.0                | 130  | ----      |



| Sub-Matrix:                         |                       |            |            |          | Reference Material (RM) Report |                    |                     |      |           |
|-------------------------------------|-----------------------|------------|------------|----------|--------------------------------|--------------------|---------------------|------|-----------|
|                                     |                       |            |            |          | RM Target<br>Concentration     | Recovery (%)<br>RM | Recovery Limits (%) |      | Qualifier |
|                                     |                       |            |            |          |                                |                    | Low                 | High |           |
| Laboratory<br>sample ID             | Reference Material ID | Analyte    | CAS Number | Method   |                                |                    |                     |      |           |
| Metals (QCLot: 1548950) - continued |                       |            |            |          |                                |                    |                     |      |           |
| QC-1548950-003                      | RM                    | Cobalt     | 7440-48-4  | E440A    | 0.057 mg/kg wwt                | 92.9               | 65.0                | 135  | ----      |
| QC-1548950-003                      | RM                    | Copper     | 7440-50-8  | E440A    | 3.3 mg/kg wwt                  | 93.2               | 70.0                | 130  | ----      |
| QC-1548950-003                      | RM                    | Iron       | 7439-89-6  | E440A    | 102 mg/kg wwt                  | 89.8               | 70.0                | 130  | ----      |
| QC-1548950-003                      | RM                    | Lead       | 7439-92-1  | E440A    | 0.058 mg/kg wwt                | 96.3               | 70.0                | 130  | ----      |
| QC-1548950-003                      | RM                    | Magnesium  | 7439-95-4  | E440A    | 899 mg/kg wwt                  | 92.1               | 70.0                | 130  | ----      |
| QC-1548950-003                      | RM                    | Manganese  | 7439-96-5  | E440A    | 0.948 mg/kg wwt                | 94.6               | 70.0                | 130  | ----      |
| QC-1548950-003                      | RM                    | Molybdenum | 7439-98-7  | E440A    | 0.134 mg/kg wwt                | 99.5               | 70.0                | 130  | ----      |
| QC-1548950-003                      | RM                    | Nickel     | 7440-02-0  | E440A    | 0.33 mg/kg wwt                 | 88.3               | 40.0                | 160  | ----      |
| QC-1548950-003                      | RM                    | Phosphorus | 7723-14-0  | E440A    | 6700 mg/kg wwt                 | 98.0               | 70.0                | 130  | ----      |
| QC-1548950-003                      | RM                    | Potassium  | 7440-09-7  | E440A    | 11600 mg/kg wwt                | 99.7               | 70.0                | 130  | ----      |
| QC-1548950-003                      | RM                    | Rubidium   | 7440-17-7  | E440A    | 2.53 mg/kg wwt                 | 97.6               | 70.0                | 130  | ----      |
| QC-1548950-003                      | RM                    | Selenium   | 7782-49-2  | E440A    | 2.48 mg/kg wwt                 | 98.7               | 70.0                | 130  | ----      |
| QC-1548950-003                      | RM                    | Sodium     | 7440-23-5  | E440A    | 9620 mg/kg wwt                 | 102                | 70.0                | 130  | ----      |
| QC-1548950-003                      | RM                    | Strontium  | 7440-24-6  | E440A    | 10.6 mg/kg wwt                 | 104                | 70.0                | 130  | ----      |
| QC-1548950-003                      | RM                    | Vanadium   | 7440-62-2  | E440A    | 0.269 mg/kg wwt                | 86.0               | 70.0                | 130  | ----      |
| QC-1548950-003                      | RM                    | Zinc       | 7440-66-6  | E440A    | 28.7 mg/kg wwt                 | 95.0               | 70.0                | 130  | ----      |
| Metals (QCLot: 1548951)             |                       |            |            |          |                                |                    |                     |      |           |
| QC-1548951-003                      | RM                    | Silver     | 7440-22-4  | E440A.Ag | 0.139 mg/kg wwt                | 105                | 70.0                | 130  | ----      |
| Metals (QCLot: 1548952)             |                       |            |            |          |                                |                    |                     |      |           |
| QC-1548952-003                      | RM                    | Mercury    | 7439-97-6  | E510A    | 0.281 mg/kg wwt                | 102                | 70.0                | 130  | ----      |
| Metals (QCLot: 1548953)             |                       |            |            |          |                                |                    |                     |      |           |
| QC-1548953-003                      | RM                    | Mercury    | 7439-97-6  | E510     | 0.281 mg/kg                    | 102                | 70.0                | 130  | ----      |
| Metals (QCLot: 1548954)             |                       |            |            |          |                                |                    |                     |      |           |
| QC-1548954-003                      | RM                    | Silver     | 7440-22-4  | E440.Ag  | 0.139 mg/kg                    | 105                | 70.0                | 130  | ----      |

**Appendix 2.** 2024 Wildlife research permit and collection license.



#24-312

**General Permit - GP**

**RESEARCH PERMIT**

FEE \$ NIL

Region: Upper Athabasca

PERMITTEE: Lawrence M Brusnyk, Wildland Management Consultants Ltd.

ADDRESS: 50345 Range Road 222, Leduc County, AB T0B 3M2

IS AUTHORIZED TO: Live-trap and release red-backed voles in the vicinity of Swan Hills Treatment Centre (age, sex, ear tag with a numbered aluminum tag). Non-target species will only be identified and released alive unless accidentally mortality occurs. Holder is also authorized to kill up to 60 voles for tissue sampling.

DATE OF ISSUE: May 09, 2024

DATE OF EXPIRY: December 31, 2024

\_\_\_\_\_  
Signature of Permittee

\_\_\_\_\_  
Fauve Blanchard, Fauve Blanchard  
Area Wildlife Biologist  
Resource Stewardship Division, Fish and Wildlife Stewardship  
Branch  
Alberta Environment and Protected Areas  
Upper Athabasca Region

IN ACCORDANCE WITH: The approved research plan (application # 27159070) and Class Protocol(s) #007

Class Protocols are reviewed by the Alberta Wildlife Animal Care Committee and approved by the Director of Fish and Wildlife Policy. Class Protocols are available at <http://aep.alberta.ca/fish-wildlife/wildlife-research-collection/default.aspx>.

**Conditions:**

1. The Permit is subject to all conditions listed in the attached Appendix 1.





#24-312

Licence - CN

**COLLECTION LICENCE**

FEE \$ NIL

Region: Upper Athabasca

NAME: Lawrence M Brusnyk, Wildland Management Consultants Ltd.

ADDRESS: 50345 Range Road 222, Leduc County, AB T0B 3M2

Is authorized, subject to the conditions of this licence, and in accordance with the approved research plan # 27159070, to hunt\* or collect, the following wildlife species: Small mammals (targeting red-backed voles).

This Licence authorizes the use of the following equipment and methods: Aluminum non-folding Sherman live traps and wooden Victor metal pedal snap traps.

This Licence is valid (location): Upper Athabasca

EFFECTIVE DATE: May 01, 2024

DATE OF EXPIRY: December 31, 2024

Hunting and/or collection is to be conducted by: Lawrence M Brusnyk, Hailey Dunsmire (field lead with 12 live-trapping sessions of experience), Taylor Whidden (field assistant with 4 live-trapping sessions of experience), Daryl Jacura (field assistant with 1 live-trapping session of experience, Daniel Bovenschen (field assistant with 0 live-trapping sessions of experience) and/or other staff as required. As in most previous years, Lawrence Brusnyk will initiate each live-trapping session with the field crew to ensure that the correct procedures for live-trap placement and live-animal handling are correctly followed. With the exception of Daniel Bovenschen, all named personnel have at least 2 snap-trapping sessions of experienced.

Date of issue: May 09, 2024

Signature of Licencee (not valid until signed by the Licencee)

**Licence must be carried while hunting or collecting.**

Fauve Blanchard, Fauve Blanchard  
Area Wildlife Biologist  
Resource Stewardship Division, Fish and Wildlife Stewardship  
Branch  
Alberta Environment and Protected Areas  
Upper Athabasca Region

*\*The meaning of the word "hunt" is inclusive of activities within the definition of "hunt" in the Wildlife Act except that the activity authorized by this licence is limited to what is expressly stated in it and, to be lawful, that activity must occur in accordance with the approved research plan and licence conditions.*

## Appendix 1: Research Permit General Permit Conditions

### Addendum to Research Permit #24-312

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1. The permit is valid only for research and collection activities in the specific area and for the dates identified on the permit.
2. All research must be conducted according to the approved Research Plan (the approved application) along with any special conditions outlined on the permit and/or licence; all captured animals must be handled in a humane manner and according any additional approvals or instructions provided by the Alberta Wildlife Animal Care Committee.
3. Animals captured using immobilization drugs must follow the Chemical Immobilization of Wildlife: Drug Volume Calculation Tables: [https://www.alberta.ca/system/files/custom\\_downloaded\\_images/ep-chemical-immobilization-drug-calculation.pdf](https://www.alberta.ca/system/files/custom_downloaded_images/ep-chemical-immobilization-drug-calculation.pdf)
4. For all projects, a report of activities from the past year is required before permits will be renewed. If the project has finished and the permit will not be renewed, the report is due within 30 days of the expiry of the permit. Reports are to be uploaded via the Online Permitting and Clearance system (OPaC) <https://www.opac.alberta.ca/>, and must include:
  - a) A Progress Report with a general summary of project activities
  - b) All wildlife observations made during the project, uploaded via OPaC using either:
    - i) a FWMIS Load Form (for the appropriate data type), or
    - ii) where USFWS bands are used in the project, a BANDIT digital export. Note: Banding data locations are to be provided as Latitude/Longitude in Degrees-Minutes-Seconds.

FWMIS.xls digital files can be accessed at the following web site:  
<https://www.alberta.ca/wildlife-loadforms.aspx>

  - c) Any accidental mortalities, oversampling exceeding 10%, and incidental captures.
  - d) If radio telemetry is a component of the research, the report must include the following information:
    - i) frequencies used, date, general location, species, transmitter type, manufacturer, and expected transmitter life.
    - ii) last known whereabouts of transmitters still deployed.
5. Notwithstanding the authorization that this permit confers, while conducting wildlife research activities, the permit holder is responsible for the following:
  - a) For activities in any Provincial Park, Provincial Recreation Area, Wildland Provincial Park, Willmore Wilderness Park, Ecological Reserve, Heritage Rangeland, Natural Area, or Wilderness Area, additional approvals for access may be required; please contact your local Alberta Environment and Protected Areas, Parks Division authority or visit <https://albertaparks.ca/albertaparksca/science-research/>
  - b) The issuance of this Permit does not exempt the permit holder from any other Canadian Laws that might otherwise apply, including, but not limited to, requirements under the federal Migratory Birds Convention Act or Species at Risk Act.
  - c) This Permit does not exempt the Permit Holder from the need to obtain permission to access private or leased land.
  - d) The Permit Holder is responsible for ensuring that public safety is not endangered by activities associated with the project.
  - e) The Permit Holder may be held accountable for damages to resources or property arising directly or indirectly from the project.

**Appendix 3.** Concentrations of metals in red-backed voles collected in the SHTC study area, May 1994 - 2024. All concentrations presented as dry weight (mg/kg). Where necessary, values converted from wet to dry weight concentrations based on the average moisture content of red-backed vole tissue samples. Blanks indicate plots and years where an individual metal was not analyzed.

**Appendix 3-1.** Concentrations of aluminum (Al, mg/kg dwt) in red-backed voles captured in the SHTC study area. **Baseline (1986-87):** Mean = 124.5, S.D. = 25.5. **Pearson's Correlation Coefficient 2024:**  $r(8) = -0.16$ . Weak negative correlation and significant ( $P = 0.001$ ,  $P < 0.05$ ).

| Plot <sup>1</sup> | 1994      | 1995      | 1996      | 1997      | 1998      | 2004       | 2009      | 2010      | 2011      | 2012       | 2014      | 2019      | 2024      |
|-------------------|-----------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|------------|-----------|-----------|-----------|
| 11                | 110       | 55        | 52        | 29        | 49        | 82         | 79        | 56        | 55        | 129        | 95        | 105       | 37        |
| 103               | 46        | 93        | 90        | 87        | 66        | 219        |           |           |           |            | 152       |           |           |
| 109               | 51        | 43        | 28        | 88        | 39        | 39         | 58        | 53        | 53        | 108        | 76        | 60        | 23        |
| 4                 | 110       | 100       |           | 65        | 120       | 173        | 59        | 127       | 80        | 132        | 166       | 103       | 92        |
| 110               |           |           |           |           |           | 127        | 60        | 68        | 41        | 89         | 74        | 46        | 35        |
| 104               | 38        | 73        | 53        | 21        | 38        | 100        |           |           |           |            | 91        |           |           |
| 102               | 37        | 110       | 46        | 37        | 48        | 280        |           |           |           |            | 80        |           |           |
| 1                 | 240       | 84        | 120       | 40        | 27        | 96         |           |           |           |            | 159       |           |           |
| 27                |           |           | 11        | 21        | 56        | 73         |           |           |           |            | 81        |           |           |
| 8                 | 180       | 100       |           | 42        | 41        | 96         | 61        |           |           |            | 269       |           |           |
| 15                |           |           |           |           |           | 52         |           |           |           |            | 62        |           |           |
| 114               | 29        | 48        | 68        | 34        | 59        | 91         | 75        | 81        | 27        | 80         | 50        | 54        | 30        |
| 121               |           |           |           |           |           | 72         |           |           |           |            | 90        |           |           |
| 9                 |           |           |           |           |           | 444        | 82        |           |           |            | 77        |           |           |
| 28                |           |           |           |           |           | 58         |           |           |           |            | 95        |           |           |
| 123               |           |           |           |           |           | 86         | 87        | 80        | 79        | 96         | 103       | 58        | 78        |
| 16                | 61        | 43        | 89        | 46        | 64        | 74         |           |           |           |            | 60        |           |           |
| 117               |           |           | 58        | 37        | 67        |            |           | 63        | 56        | 88         | 50        | 77        | 33        |
| 26                | 43        | 100       | 52        | 44        | 35        | 138        |           |           |           |            | 70        |           |           |
| 29                |           |           |           |           |           | 89         | 77        |           |           |            | 73        |           |           |
| 30                | 240       | 200       | 160       | 340       | 260       | 258        | 135       |           |           |            | 68        |           |           |
| 402               | 62        | 47        | 16        | 13        | 18        | 53         | 54        | 114       | 44        | 117        | 100       | 67        | 25        |
| 70                |           |           |           |           |           |            |           | 238       | 170       | 149        | 147       | 156       | 65        |
| 71                |           |           |           |           |           |            |           | 30        | 158       | 496        | 77        | 36        | 25        |
| <b>Averages</b>   | <b>90</b> | <b>86</b> | <b>64</b> | <b>65</b> | <b>69</b> | <b>129</b> | <b>75</b> | <b>91</b> | <b>76</b> | <b>148</b> | <b>99</b> | <b>76</b> | <b>44</b> |

<sup>1</sup> Order of plots (plots 11 [100 m] to 71 [21 km]) indicates increasing distance from the SHTC.

**Appendix 3-2.** Concentrations of antimony (Sb, mg/kg dwt) in red-backed voles captured in the SHTC study area. **Baseline (1986-87):** Mean = <0.2, S.D. = 0.0. **Pearson's Correlation Coefficient 2024:**  $r(8) = -0.22$ . Weak negative correlation but not significant ( $P = 0.07$ ,  $P > 0.05$ ).

| Plot <sup>1</sup> | 1994           | 1995           | 1996           | 1997           | 1998           | 2004           | 2009           | 2010        | 2011        | 2012        | 2014         | 2019         | 2024         |
|-------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-------------|-------------|-------------|--------------|--------------|--------------|
| 11                | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           | <0.4           | 0.02        | 0.02        | 0.01        | <0.050       | 0.147        | <0.01        |
| 103               | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           |                |             |             |             | 0.159        |              |              |
| 109               | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           | <0.4           | 0.02        | 0.02        | 0.02        | <0.050       | 0.030        | <0.01        |
| 4                 | <0.2           | <0.2           |                | <0.2           | <0.2           | <0.2           | 0.4            | 0.03        | 0.03        | 0.02        | 0.056        | 0.024        | 0.013        |
| 110               |                |                |                |                |                | <0.2           | <0.4           | 0.02        | 0.02        | 0.01        | <0.050       | 0.007        | <0.01        |
| 104               |                |                |                |                |                |                |                |             |             |             | <0.050       |              |              |
| 102               |                |                |                |                |                |                |                |             |             |             | <0.050       |              |              |
| 1                 | <0.2           | 0.4            | <0.2           | <0.2           | <0.2           | <0.2           |                |             |             |             | <0.050       |              |              |
| 27                | <0.2           | 0.6            | <0.2           | <0.2           | <0.2           | <0.2           |                |             |             |             | <0.050       |              |              |
| 8                 | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           |                |             |             |             | <0.050       |              |              |
| 15                | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           |                |             |             |             | <0.050       |              |              |
| 114               | 0.3            | 0.4            |                | <0.2           | <0.2           | <0.2           | <0.4           | 0.02        | <0.01       | 0.02        | <0.050       | 0.026        | <0.01        |
| 121               |                |                |                |                |                | <0.2           |                |             |             |             | <0.050       |              |              |
| 9                 | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           | <0.4           |             |             |             | <0.050       |              |              |
| 28                |                |                |                |                |                | <0.2           |                |             |             |             | <0.050       |              |              |
| 123               |                |                |                |                |                | <0.2           | <0.4           | 0.01        | 0.01        | 0.01        | <0.050       | 0.003        | <0.01        |
| 16                |                |                |                |                |                | <0.2           |                |             |             |             | <0.050       |              |              |
| 117               |                |                |                |                |                | <0.2           | <0.4           | 0.02        | 0.01        | 0.01        | <0.050       | 0.012        | <0.01        |
| 26                | <0.2           | 0.2            | <0.2           | <0.2           | <0.2           | <0.2           |                |             |             |             | <0.050       |              |              |
| 29                | <0.2           | 0.2            | <0.2           | <0.2           | <0.2           |                |                |             |             |             | <0.050       |              |              |
| 30                | <0.2           | <0.2           | 0.6            | <0.2           | <0.2           | <0.2           |                |             |             |             | <0.050       |              |              |
| 402               |                |                |                |                |                | <0.2           | <0.4           | 0.01        | <0.01       | 0.01        | <0.050       | 0.007        | <0.01        |
| 70                | 0.3            | 0.3            | <0.2           | <0.2           | <0.2           | <0.2           | <0.4           | 0.03        | 0.02        | 0.01        | <0.050       | 0.014        | <0.01        |
| 71                | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           | <0.4           | 0.01        | <0.01       | 0.01        | <0.050       | 0.004        | <0.01        |
| <b>Averages</b>   | <b>&lt;0.2</b> | <b>&lt;0.2</b> | <b>&lt;0.2</b> | <b>&lt;0.2</b> | <b>&lt;0.2</b> | <b>&lt;0.2</b> | <b>&lt;0.4</b> | <b>0.02</b> | <b>0.01</b> | <b>0.01</b> | <b>0.009</b> | <b>0.028</b> | <b>0.006</b> |

<sup>1</sup> Order of plots (plots 11 [100 m] to 71 [21 km]) indicates increasing distance from the SHTC.

**Appendix 3-3.** Concentrations of arsenic (As, mg/kg dwt) in red-backed voles captured in the SHTC study area. **Baseline (1986-87):** Mean = <0.1, S.D. = 0.0. **Pearson's Correlation Coefficient 2024:**  $r(8) = -0.35$ . Weak negative correlation but not significant ( $P = 0.07$ ,  $P > 0.05$ ).

| Plot <sup>1</sup> | 1994           | 1995           | 1996       | 1997       | 1998       | 2004           | 2009       | 2010        | 2011            | 2012        | 2014        | 2019        | 2024         |
|-------------------|----------------|----------------|------------|------------|------------|----------------|------------|-------------|-----------------|-------------|-------------|-------------|--------------|
| 11                | <0.1           | <0.1           | 1.3        | <0.1       | 0.6        | <0.1           | 0.2        | <0.08       | <0.15           | 0.16        | 0.112       | 0.142       | 0.069        |
| 103               | <0.1           | <0.1           | <0.1       | <0.1       | 0.3        | <0.1           |            |             |                 |             | 0.281       |             |              |
| 109               | <0.1           | <0.1           | <0.1       | <0.1       | <0.1       | <0.1           | 0.2        | 0.08        | <0.15           | 0.17        | 0.087       | 0.182       | 0.092        |
| 4                 | <0.1           | <0.1           |            | <0.1       | <0.1       | <0.1           | 0.2        | 0.04        | <0.11           | 0.13        | 0.208       | 0.209       | 0.162        |
| 110               |                |                |            |            |            |                | 0.1        | 0.12        | <0.15           | 0.1         | 0.091       | 0.079       | 0.085        |
| 104               |                |                |            |            |            |                |            |             |                 |             | 0.108       |             |              |
| 102               |                |                |            |            |            |                |            |             |                 |             | 0.112       |             |              |
| 1                 | <0.1           | <0.1           | 0.7        | <0.1       | 1.9        | <0.1           |            |             |                 |             | 0.155       |             |              |
| 27                | <0.1           | <0.1           | <0.1       | <0.1       | 0.3        | <0.1           |            |             |                 |             | 0.1         |             |              |
| 8                 | 0.1            | <0.1           | 0.3        | <0.1       | <0.1       | <0.1           |            |             |                 |             | 0.221       |             |              |
| 15                |                |                | 1          | <0.1       | 0.9        | <0.1           |            |             |                 |             | 0.088       |             |              |
| 114               | 0.1            | <0.1           |            | <0.1       | 0.2        | <0.1           | 0.1        | 0.12        | <0.15           | 0.12        | 0.075       | 0.179       | 0.084        |
| 121               |                |                |            |            |            |                |            |             |                 |             | 0.096       |             |              |
| 9                 | <0.1           | <0.1           | 0.5        | 0.7        | <0.1       | <0.1           | 0.1        |             |                 |             | 0.08        |             |              |
| 28                |                |                |            |            |            |                |            |             |                 |             | 0.08        |             |              |
| 123               |                |                |            |            |            |                | 0.1        |             | <0.11           | 0.11        | 0.076       | 0.069       | 0.151        |
| 16                |                |                |            |            |            |                |            |             |                 |             | 0.071       |             |              |
| 117               |                |                |            |            |            |                | 0.2        | 0.08        | <0.11           | 0.13        | 0.085       | 0.123       | 0.051        |
| 26                | <0.1           | <0.1           | 0.6        | <0.1       | 0.6        | <0.1           |            |             |                 |             | 0.075       |             |              |
| 29                |                |                | 0.2        | <0.1       | 0.3        |                |            |             |                 |             | 0.067       |             |              |
| 30                | <0.1           | <0.1           | <0.1       | <0.1       | <0.1       | <0.1           |            |             |                 |             | 0.065       |             |              |
| 402               |                |                |            |            |            |                | 0.1        | 0.08        | <0.11           | 0.13        | 0.081       | 0.074       | 0.38         |
| 70                | <0.1           | <0.1           | 0.2        | 0.2        | <0.1       | <0.1           | 0.2        | 0.2         | <0.15           | 0.14        | 0.118       | 0.111       | 0.082        |
| 71                | <0.1           | 0.2            | 0.4        | <0.1       | <0.1       | <0.1           | 0.2        | <0.08       | <0.15           | 0.15        | 0.074       | 0.049       | 0.062        |
| <b>Averages</b>   | <b>&lt;0.1</b> | <b>&lt;0.1</b> | <b>0.4</b> | <b>0.1</b> | <b>0.4</b> | <b>&lt;0.1</b> | <b>0.2</b> | <b>0.08</b> | <b>&lt;0.14</b> | <b>0.13</b> | <b>0.11</b> | <b>0.12</b> | <b>0.088</b> |

<sup>1</sup> Order of plots (plots 11 [100 m] to 71 [21 km]) indicates increasing distance from the SHTC.

**Appendix 3-4.** Concentrations of barium (Ba, mg/kg dwt) in red-backed voles captured in the SHTC study area. **Baseline (1986-87):** Mean = 36.1, S.D. = 14.4. **Pearson's Correlation Coefficient 2024:**  $r(8) = 0.53$ . Moderate positive correlation and significant ( $P = 0.001$ ,  $P < 0.05$ ).

| Plot <sup>1</sup> | 1994      | 1995      | 1996      | 1997      | 1998      | 2004      | 2009      | 2010      | 2011      | 2012      | 2014      | 2019      | 2024      |
|-------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 11                | 17        | 29        | 24        | 25        | 28        | 18        | 29        | 40        | 48        | 36        | 46.9      | 31        | 17        |
| 103               | 13        | 18        | 17        | 23        | 17        | 17        |           |           |           |           | 41.9      |           |           |
| 109               | 21        | 25        | 15        | 18        | 21        | 15        | 41        | 22        | 42        | 35        | 41.8      | 30        | 29        |
| 4                 | 22        | 25        |           | 30        | 28        | 43        | 35        | 26        | 31        | 35        | 43.4      | 30        | 18        |
| 110               |           |           |           |           |           | 14        | 32        | 23        | 47        | 45        | 38.5      | 37        | 27        |
| 104               |           |           |           |           |           |           |           |           |           |           | 34.4      |           |           |
| 102               |           |           |           |           |           |           |           |           |           |           | 61.9      |           |           |
| 1                 | 19        | 19        | 20        | 36        | 25        | 35        |           |           |           |           | 31.7      |           |           |
| 27                | 23        | 22        | 16        | 16        | 25        | 22        |           |           |           |           | 44.5      |           |           |
| 8                 | 24        | 25        | 20        | 17        | 18        | 30        |           |           |           |           | 32.7      |           |           |
| 15                |           |           | 18        | 25        | 23        | 24        |           |           |           |           | 58.7      | -         |           |
| 114               | 19        | 20        |           | 14        | 18        | 24        | 23        | 18        | 71        | 45        | 36.1      | 25        | 20        |
| 121               |           |           |           |           |           | 50        |           |           |           |           | 32.7      |           |           |
| 9                 | 17        | 36        | 32        | 28        | 29        | 34        | 47        |           |           |           | 48.7      |           |           |
| 28                |           |           |           |           |           | 20        |           |           |           |           | 50.7      |           |           |
| 123               |           |           |           |           |           | 36        | 36        | 50        | 45        | 46        | 34.3      | 51        | 27        |
| 16                |           |           |           |           |           | 19        |           |           |           |           | 41        |           |           |
| 117               |           |           |           |           |           | 32        | 35        | 25        | 41        | 33        | 28.4      | 33        | 32        |
| 26                | 13        | 21        | 21        | 25        | 27        | 26        |           |           |           |           | 40.4      |           |           |
| 29                |           |           | 31        | 36        | 28        |           |           |           |           |           | 38.6      |           |           |
| 30                | 17        | 14        | 23        | 23        | 16        | 19        |           |           |           |           | 42.6      |           |           |
| 402               |           |           |           |           |           | 22        | 35        | 42        | 59        | 39        | 40.4      | 44        | 26        |
| 70                | 20        | 16        | 16        | 19        | 25        | 24        | 49        | 33        | 77        | 37        | 49.9      | 59        | 22        |
| 71                | 20        | 24        | 32        | 34        | 24        | 20        | 46        | 39        | 27        | 49        | 55        | 44        | 37        |
| <b>Averages</b>   | <b>18</b> | <b>22</b> | <b>21</b> | <b>24</b> | <b>23</b> | <b>26</b> | <b>37</b> | <b>32</b> | <b>49</b> | <b>40</b> | <b>42</b> | <b>39</b> | <b>26</b> |

<sup>1</sup> Order of plots (plots 11 [100 m] to 71 [21 km]) indicates increasing distance from the SHTC.

**Appendix 3-5.** Concentrations of beryllium (Be, mg/kg dwt) in red-backed voles captured in the SHTC study area. **Baseline (1986-87):** Mean = <0.2, S.D. = 0.0. **Pearson's Correlation Coefficient 2024:**  $r(8) = 0.00$ . No correlation and not significant ( $P = 0.07$ ,  $P > 0.05$ ).

| Plot <sup>1</sup> | 1994           | 1995           | 1996           | 1997           | 1998           | 2004           | 2009           | 2010           | 2011            | 2012        | 2014           | 2019            | 2024            |
|-------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|-------------|----------------|-----------------|-----------------|
| 11                | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           | <0.15           | 0.11        | <0.2           | <0.01           | <0.01           |
| 103               | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           |                |                |                 |             | <0.2           |                 |                 |
| 109               | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           | <0.19           | 0.11        | <0.2           | <0.01           | <0.01           |
| 4                 | <0.2           | <0.2           |                | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           | <0.15           | 0.11        | <0.2           | <0.01           | <0.01           |
| 110               |                |                |                |                |                |                | <0.2           | <0.2           | <0.19           | 0.11        | <0.2           | <0.01           | <0.01           |
| 104               |                |                |                |                |                |                |                |                |                 |             | <0.2           |                 |                 |
| 102               |                |                |                |                |                |                |                |                |                 |             | <0.2           |                 |                 |
| 1                 | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           |                |                |                 |             | <0.2           |                 |                 |
| 27                | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           |                |                |                 |             | <0.2           |                 |                 |
| 8                 | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           |                |                |                 |             | <0.2           |                 |                 |
| 15                |                |                | <0.2           | <0.2           | <0.2           | <0.2           |                |                |                 |             | <0.2           |                 |                 |
| 114               | <0.2           | <0.2           |                | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           | <0.19           | 0.11        | <0.2           | <0.01           | <0.01           |
| 121               |                |                |                |                |                |                |                |                |                 |             | <0.2           |                 |                 |
| 9                 | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           |                |                 |             | <0.2           |                 |                 |
| 28                |                |                |                |                |                |                |                |                |                 |             | <0.2           |                 |                 |
| 123               |                |                |                |                |                |                | <0.2           | <0.2           | <0.15           | 0.11        | <0.2           | <0.01           | <0.01           |
| 16                |                |                |                |                |                |                |                |                |                 |             | <0.2           |                 |                 |
| 117               |                |                |                |                |                |                | <0.2           | <0.2           | <0.15           | 0.11        | <0.2           | <0.01           | <0.01           |
| 26                | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           |                |                |                 |             | <0.2           |                 |                 |
| 29                |                |                | <0.2           | <0.2           | <0.2           | <0.2           |                |                |                 |             | <0.2           |                 |                 |
| 30                | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           |                |                |                 |             | <0.2           |                 |                 |
| 402               |                |                |                |                |                |                | <0.2           | <0.2           | <0.11           | 0.11        | <0.2           | <0.01           | <0.01           |
| 70                | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           | <0.19           | 0.11        | <0.2           | <0.01           | <0.01           |
| 71                | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           | <0.19           | 0.11        | <0.2           | <0.01           | <0.01           |
| <b>Averages</b>   | <b>&lt;0.2</b> | <b>&lt;0.2</b> | <b>&lt;0.2</b> | <b>&lt;0.2</b> | <b>&lt;0.2</b> | <b>&lt;0.2</b> | <b>&lt;0.2</b> | <b>&lt;0.2</b> | <b>&lt;0.17</b> | <b>0.11</b> | <b>&lt;0.2</b> | <b>&lt;0.01</b> | <b>&lt;0.01</b> |

<sup>1</sup> Order of plots (plots 11 [100 m] to 71 [21 km]) indicates increasing distance from the SHTC.

**Appendix 3-6.** Concentrations of cadmium (Cd, mg/kg dwt) in red-backed voles captured in the SHTC study area. **Baseline (1986-87):** Mean = 0.37, S.D. = 0.09. **Pearson's Correlation Coefficient 2024:**  $r(8) = 0.22$ . Weak positive correlation and not significant ( $P = 0.74$ ,  $P > 0.05$ ).

| Plot <sup>1</sup> | 1994           | 1995           | 1996           | 1997           | 1998           | 2004           | 2009           | 2010        | 2011        | 2012        | 2014        | 2019         | 2024         |
|-------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-------------|-------------|-------------|-------------|--------------|--------------|
| 11                | <0.2           | <0.2           | 0.2            | <0.2           | <0.2           | <0.2           | <0.4           | 0.01        | 0.2         | 0.17        | 0.148       | 0.102        | 0.105        |
| 103               | <0.2           | <0.2           | 0.3            | <0.2           | <0.2           | <0.2           |                |             |             |             | 0.702       |              |              |
| 109               | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           | <0.4           | 0.13        | 0.29        | 0.32        | 0.14        | 0.196        | 0.079        |
| 4                 | <0.2           | <0.2           |                | <0.2           | <0.2           | <0.2           | <0.4           | 0.15        | 0.22        | 0.13        | 0.214       | 0.113        | 0.120        |
| 110               |                |                |                |                |                | <0.2           | <0.4           | 0.14        | 0.17        | 0.16        | 0.149       | 0.069        | 0.058        |
| 104               |                |                |                |                |                |                |                |             |             |             | 0.112       |              |              |
| 102               |                |                |                |                |                |                |                |             |             |             | 0.249       |              |              |
| 1                 | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           |                |             |             |             | 0.15        |              |              |
| 27                | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           |                |             |             |             | 0.151       |              |              |
| 8                 | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           |                |             |             |             | 0.174       |              |              |
| 15                |                |                | <0.2           | <0.2           | <0.2           | <0.2           |                |             |             |             | 0.319       |              |              |
| 114               | 0.3            | <0.2           |                | 0.2            | <0.2           | <0.2           | <0.4           | 0.37        | 0.12        | 0.31        | 0.174       | 0.172        | 0.146        |
| 121               |                |                |                |                |                | <0.2           |                |             |             |             | 0.071       |              |              |
| 9                 | <0.2           | 0.2            | 0.2            | <0.2           | <0.2           | <0.2           | <0.4           |             |             |             | 0.156       |              |              |
| 28                |                |                |                |                |                | <0.2           |                |             |             |             | 0.197       |              |              |
| 123               |                |                |                |                |                | <0.2           | <0.4           | 0.12        | 0.13        | 0.16        | 0.111       | 0.087        | 0.84         |
| 16                |                |                |                |                |                | <0.2           |                |             |             |             | 0.156       |              |              |
| 117               |                |                |                |                |                | 0.4            | <0.4           | 0.25        | 0.39        | 0.26        | 0.25        | 0.480        | 0.275        |
| 26                | <0.2           | <0.2           | 0.2            | <0.2           | <0.2           | <0.2           |                |             |             |             | 0.052       |              |              |
| 29                |                |                | <0.2           | <0.2           | <0.2           |                |                |             |             |             | 0.099       |              |              |
| 30                | <0.2           | 0.2            | <0.2           | <0.2           | <0.2           | <0.2           |                |             |             |             | 0.107       |              |              |
| 402               |                |                |                |                |                | <0.2           | <0.4           | 0.18        | 0.12        | 0.14        | 0.171       | 0.319        | 0.530        |
| 70                | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           | <0.4           | 0.04        | 0.05        | 0.06        | 0.077       | 0.045        | 0.039        |
| 71                | <0.2           | 0.2            | 0.3            | <0.2           | <0.2           | <0.2           | <0.4           | 0.15        | 0.17        | 0.22        | 0.187       | 0.226        | 0.203        |
| <b>Averages</b>   | <b>&lt;0.2</b> | <b>&lt;0.2</b> | <b>&lt;0.2</b> | <b>&lt;0.2</b> | <b>&lt;0.2</b> | <b>&lt;0.2</b> | <b>&lt;0.4</b> | <b>0.15</b> | <b>0.19</b> | <b>0.19</b> | <b>0.18</b> | <b>0.181</b> | <b>0.164</b> |

<sup>1</sup> Order of plots (plots 11 [100 m] to 71 [21 km]) indicates increasing distance from the SHTC.



**Appendix 3-7.** Concentrations of calcium (Ca, mg/kg dwt) in red-backed voles captured in the SHTC study area. **Baseline (1986-87):** Mean = 32,000, S.D. = 5,100. **Pearson's Correlation Coefficient 2024:**  $r(8) = 0.46$ . Moderate positive correlation and significant ( $P = 0.001$ ,  $P < 0.05$ ).

| Plot <sup>1</sup> | 1994         | 1995         | 1996         | 1997         | 1998         | 2004         | 2009         | 2010         | 2011         | 2012         | 2014         | 2019         | 2024         |
|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 11                | 34000        | 33900        | 24600        | 24000        | 26200        | 24679        | 34313        | 54199        | 44656        | 37748        | 30200        | 35704        | 16600        |
| 103               | 28400        | 43700        | 27100        | 26600        | 22300        | 23423        |              |              |              |              | 35900        |              |              |
| 109               | 22100        | 31900        | 21900        | 21600        | 30900        | 20357        | 44275        | 31298        | 40076        | 24847        | 27700        | 33655        | 31100        |
| 4                 | 30300        | 28400        |              | 21900        | 31300        | 36577        | 35649        | 31832        | 35573        | 31808        | 33400        | 29898        | 21800        |
| 110               |              |              |              |              |              | 20423        | 38168        | 33206        | 51908        | 34885        | 31800        | 35300        | 33500        |
| 104               |              |              |              |              |              |              |              |              |              |              | 24600        |              |              |
| 102               |              |              |              |              |              |              |              |              |              |              | 31900        |              |              |
| 1                 | 28000        | 24000        | 23150        | 32600        | 36900        | 41538        |              |              |              |              | 25800        |              |              |
| 27                | 31000        | 32800        | 24400        | 25500        | 28200        | 30560        |              |              |              |              | 32700        |              |              |
| 8                 | 35700        | 27000        | 28400        | 24900        | 22900        | 42739        |              |              |              |              | 32200        |              |              |
| 15                |              |              | 26500        | 25200        | 32200        | 27269        |              |              |              |              | 34400        |              |              |
| 114               | 33300        | 32800        |              | 23950        | 31400        | 27929        | 34657        | 25229        | 72519        | 45802        | 28800        | 22561        | 24600        |
| 121               |              |              |              |              |              | 39652        |              |              |              |              | 27800        |              |              |
| 9                 | 22400        | 32000        | 25200        | 33900        | 37300        | 31348        | 51908        |              |              |              | 30300        |              |              |
| 28                |              |              |              |              |              | 21960        |              |              |              |              | 35500        |              |              |
| 123               |              |              |              |              |              | 33111        | 40076        | 46947        | 37443        | 38931        | 28900        | 53979        | 22900        |
| 16                |              |              |              |              |              | 26000        |              |              |              |              | 32400        |              |              |
| 117               |              |              |              |              |              | 39655        | 40076        | 43130        | 58015        | 41603        | 28900        | 36462        | 24800        |
| 26                | 18400        | 27600        | 19700        | 28950        | 32500        | 28704        |              |              |              |              | 29300        |              |              |
| 29                |              |              | 31200        | 27400        | 27600        |              |              |              |              |              | 28300        |              |              |
| 30                | 30800        | 29300        | 24700        | 29900        | 27200        | 25125        |              |              |              |              | 31200        |              |              |
| 402               |              |              |              |              |              | 28556        | 36489        | 48855        | 43511        | 32863        | 31200        | 37050        | 23600        |
| 70                | 26200        | 27100        | 22300        | 24600        | 31300        | 27038        | 42748        | 41985        | 71756        | 38550        | 30800        | 52778        | 24100        |
| 71                | 33300        | 36500        | 35900        | 42400        | 37800        | 29433        | 37404        | 45802        | 21145        | 35420        | 29600        | 37363        | 36100        |
| <b>Averages</b>   | <b>29180</b> | <b>32487</b> | <b>25897</b> | <b>27206</b> | <b>30052</b> | <b>29813</b> | <b>39615</b> | <b>40248</b> | <b>47660</b> | <b>36246</b> | <b>30567</b> | <b>37475</b> | <b>25910</b> |

<sup>1</sup> Order of plots (plots 11 [100 m] to 71 [21 km]) indicates increasing distance from the SHTC.

**Appendix 3-8.** Concentrations of chromium (Cr, mg/kg dwt) in red-backed voles captured in the SHTC study area. **Baseline (1986-87):** Mean = 1.3, S.D. = 0.5. **Pearson's Correlation Coefficient 2024:**  $r(8) = -0.16$ . Weak negative correlation and not significant ( $P = 0.08$ ,  $P > 0.05$ ).

| Plot <sup>1</sup> | 1994       | 1995       | 1996       | 1997       | 1998       | 2004       | 2009           | 2010       | 2011       | 2012       | 2014       | 2019       | 2024         |
|-------------------|------------|------------|------------|------------|------------|------------|----------------|------------|------------|------------|------------|------------|--------------|
| 11                | 2.2        | 4.1        | 1.5        | 2.3        | 1.7        | 1.4        | <0.4           | 0.3        | 0.3        | 0.8        | 0.52       | 0.14       | 0.096        |
| 103               | 1.6        | 4.7        | 4.1        | 4.5        | 3.1        | 1.9        |                |            |            |            | 1.4        |            |              |
| 109               | 0.9        | 4          | 2.8        | 2.6        | 2.8        | 2.9        | <0.4           | 0.7        | 0.2        | 0.8        | 0.7        | 0.16       | 0.091        |
| 4                 | 3.6        | 2.8        |            | 1.9        | 1.5        | 2.7        | <0.4           | 0.5        | 0.2        | 0.5        | 0.62       | 0.24       | 0.193        |
| 110               |            |            |            |            |            | 2.7        | <0.4           | 0.4        | 0.3        | 0.7        | 0.8        | 0.09       | 0.146        |
| 104               |            |            |            |            |            |            |                |            |            |            | 0.59       |            |              |
| 102               |            |            |            |            |            |            |                |            |            |            | 0.67       |            |              |
| 1                 | 2.8        | 3.5        | 1          | 2.5        | 2.1        | 1.5        |                |            |            |            | 0.73       |            |              |
| 27                | 1          | 4          | 1.6        | 2.1        | 2.7        | 2.8        |                |            |            |            | 1.14       |            |              |
| 8                 | 2          | 3.8        | 2          | 2.1        | 4.5        | 3.5        |                |            |            |            | 1.13       |            |              |
| 15                |            |            | 0.7        | 2.1        | 1.4        | 2.3        |                |            |            |            | 0.7        |            |              |
| 114               | 2.5        | 1          |            | 1.5        | 2.6        | 2.1        | 0.6            | 0.3        | 0.2        | 0.6        | 0.82       | 0.18       | 0.136        |
| 121               |            |            |            |            |            | 1.7        |                |            |            |            | 0.63       |            |              |
| 9                 | 2.2        | 3.8        | 2          | 2.9        | 3.1        | 2.6        | <0.4           |            |            |            | 0.85       |            |              |
| 28                |            |            |            |            |            | 1.6        |                |            |            |            | 0.28       |            |              |
| 123               |            |            |            |            |            | 2.2        | <0.4           | 0.4        | 0.3        | 0.8        | 0.49       | 0.08       | 0.167        |
| 16                |            |            |            |            |            | 6.5        |                |            |            |            | 0.82       |            |              |
| 117               |            |            |            |            |            | 2.1        | <0.4           | 0.3        | 0.2        | 1.3        | 0.92       | 0.16       | 0.180        |
| 26                | 0.9        | 3.3        | 2.7        | 2.3        | 2.4        | 2.2        |                |            |            |            | 0.59       |            |              |
| 29                |            |            | 0.9        | 2.4        | 1.9        |            |                |            |            |            | 1.08       |            |              |
| 30                | 0.9        | 4          | 4          | 3.3        | 2.1        | 2.5        |                |            |            |            | 0.57       |            |              |
| 402               |            |            |            |            |            | 2.2        | <0.4           | 0.4        | 0.2        | 0.6        | 0.91       | 0.09       | 0.254        |
| 70                | 3.5        | 3.1        | 2.1        | 3.4        | 2.4        | 1.9        | <0.4           | 0.6        | 0.4        | 2.1        | 1.57       | 0.24       | 0.145        |
| 71                | 1          | 3.4        | 2.6        | 3.1        | 2.3        | 2          | <0.4           | 0.9        | 0.4        | 2.4        | 0.7        | 0.10       | 0.086        |
| <b>Averages</b>   | <b>1.9</b> | <b>3.6</b> | <b>2.1</b> | <b>2.6</b> | <b>2.4</b> | <b>2.5</b> | <b>&lt;0.4</b> | <b>0.5</b> | <b>0.3</b> | <b>1.1</b> | <b>0.8</b> | <b>0.1</b> | <b>0.149</b> |

<sup>1</sup> Order of plots (plots 11 [100 m] to 71 [21 km]) indicates increasing distance from the SHTC.

**Appendix 3-9.** Concentrations of cobalt (Co, mg/kg dwt) in red-backed voles captured in the SHTC study area. **Baseline (1986-87):** Mean = 0.3, S.D. = 0.05. **Pearson's Correlation Coefficient 2024:**  $r(8) = 0.21$ . Weak positive correlation but not significant ( $P = 0.08$ ,  $P > 0.05$ ).

| Plot <sup>1</sup> | 1994       | 1995       | 1996       | 1997       | 1998           | 2004       | 2009       | 2010       | 2011       | 2012       | 2014       | 2019       | 2024         |
|-------------------|------------|------------|------------|------------|----------------|------------|------------|------------|------------|------------|------------|------------|--------------|
| 11                | <0.2       | <0.2       | 0.3        | <0.2       | <0.2           | 0.4        | 0.8        | 0.2        | 0.3        | 0.2        | 0.291      | 0.245      | 0.212        |
| 103               | 0.5        | 0.2        | 0.5        | 0.3        | <0.2           | 0.4        |            |            |            |            | 0.337      |            |              |
| 109               | 0.3        | 0.2        | <0.2       | <0.2       | <0.2           | 0.3        | 0.8        | 0.2        | 0.2        | 0.2        | 0.225      | 0.246      | 0.180        |
| 4                 | <0.2       | 0.2        |            | <0.2       | <0.2           | 0.7        | 0.8        | 0.3        | 0.3        | 0.1        | 0.333      | 0.259      | 0.303        |
| 110               |            |            |            |            |                | 0.3        | 0.8        | 0.2        | 0.2        | 0.2        | 0.242      | 0.212      | 0.251        |
| 104               |            |            |            |            |                |            |            |            |            |            | 0.248      |            |              |
| 102               |            |            |            |            |                |            |            |            |            |            | 0.279      |            |              |
| 1                 | <0.2       | <0.2       | <0.2       | <0.2       | <0.2           | 0.4        |            |            |            |            | 0.297      |            |              |
| 27                | 0.3        | <0.2       | 0.4        | 0.4        | <0.2           | 0.5        |            |            |            |            | 0.272      |            |              |
| 8                 | 0.3        | 0.4        | 0.4        | 0.6        | <0.2           | 0.5        |            |            |            |            | 0.47       |            |              |
| 15                |            |            | <0.2       | <0.2       | <0.2           | 0.3        |            |            |            |            | 0.202      |            |              |
| 114               | <0.2       | 0.4        |            | 0.4        | <0.2           | 0.4        | 0.8        | 0.4        | 0.2        | 0.2        | 0.2        | 0.254      | 0.197        |
| 121               |            |            |            |            |                | 0.5        |            |            |            |            | 0.202      |            |              |
| 9                 | 0.4        | 0.4        | 0.3        | 0.5        | <0.2           | 0.6        | 0.4        |            |            |            | 0.273      |            |              |
| 28                |            |            |            |            |                | <0.2       |            |            |            |            | 0.242      |            |              |
| 123               |            |            |            |            |                | 0.5        | 0.8        | 0.3        | 0.2        | 0.2        | 0.235      | 0.231      | 0.287        |
| 16                |            |            |            |            |                | 0.3        |            |            |            |            | 0.242      |            |              |
| 117               |            |            |            |            |                | 0.4        | 0.8        | 0.3        | 0.3        | 0.3        | 0.228      | 0.294      | 0.145        |
| 26                | <0.2       | <0.2       | 0.4        | <0.2       | <0.2           | 0.3        |            |            |            |            | 0.207      |            |              |
| 29                |            |            | 0.3        | 0.2        | <0.2           | 0.4        |            |            |            |            | 0.282      |            |              |
| 30                | 0.3        | 0.3        | 0.2        | 0.2        | <0.2           |            |            |            |            |            | 0.21       |            |              |
| 402               |            |            |            |            |                | 0.5        | 1.1        | 0.4        | 0.2        | 0.2        | 0.265      | 0.414      | 0.332        |
| 70                | <0.2       | 0.4        | 0.4        | 0.2        | <0.2           | 0.4        | 0.8        | 0.5        | 0.3        | 0.5        | 0.305      | 0.368      | 0.243        |
| 71                | 0.5        | 0.4        | 0.4        | 0.2        | <0.2           | 0.4        | 0.8        | 0.4        | 0.4        | 0.6        | 0.26       | 0.333      | 0.243        |
| <b>Averages</b>   | <b>0.2</b> | <b>0.2</b> | <b>0.3</b> | <b>0.2</b> | <b>&lt;0.2</b> | <b>0.4</b> | <b>0.8</b> | <b>0.3</b> | <b>0.3</b> | <b>0.3</b> | <b>0.3</b> | <b>0.3</b> | <b>0.239</b> |

<sup>1</sup> Order of plots (plots 11 [100 m] to 71 [21 km]) indicates increasing distance from the SHTC.

**Appendix 3-10.** Concentrations of copper (Cu, mg/kg dwt) in red-backed voles captured in the SHTC study area. **Baseline (1986-87):** Mean = 9.9, S.D. = 1.3. **Pearson's Correlation Coefficient 2024:**  $r(8) = -0.09$ . Weak negative correlation and significant ( $P = 0.005$ ,  $P < 0.05$ ).

| Plot <sup>1</sup> | 1994       | 1995     | 1996        | 1997      | 1998      | 2004        | 2009        | 2010        | 2011        | 2012        | 2014        | 2019        | 2024      |
|-------------------|------------|----------|-------------|-----------|-----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------|
| 11                | 10         | 8        | 9.9         | 16        | 9.1       | 19.9        | 26          | 49.2        | 11.8        | 14.1        | 16          | 18.4        | 15        |
| 103               | 10         | 9.2      | 9.2         | 15        | 11        | 23.9        |             |             |             |             | 32          |             |           |
| 109               | 9.2        | 8.1      | 18          | 29        | 7.5       | 38.6        | 19.5        | 33.9        | 12.8        | 20.9        | 17.4        | 9.7         | 17        |
| 4                 | 10         | 9.7      |             | 28        | 11        | 19.7        | 27.9        | 40.1        | 13.7        | 10.1        | 20.8        | 13.6        | 14        |
| 110               |            |          |             |           |           | 21.6        | 23.3        | 19          | 17.1        | 20.8        | 24          | 8.1         | 10        |
| 104               |            |          |             |           |           |             |             |             |             |             | 22.6        |             |           |
| 102               |            |          |             |           |           |             |             |             |             |             | 20.7        |             |           |
| 1                 | 8.6        | 8.6      | 10.1        | 11        | 9.6       | 31.4        |             |             |             |             | 19.6        |             |           |
| 27                | 11         | 13       | 13          | 16        | 10        | 18          |             |             |             |             | 35.2        |             |           |
| 8                 | 13         | 9.5      | 10          | 14        | 11        | 43.9        |             |             |             |             | 26.8        |             |           |
| 15                |            |          | 7.1         | 45        | 13        | 10.6        |             |             |             |             | 21.9        |             |           |
| 114               | 11         | 7.2      |             | 14        | 9.3       | 18.2        | 16.8        | 43.5        | 12.1        | 14          | 18          | 13.9        | 11        |
| 121               |            |          |             |           |           | 26.4        |             |             |             |             | 14.4        |             |           |
| 9                 | 8.9        | 8.7      | 15          | 16        | 18        | 15.5        | 26.7        |             |             |             | 27          |             |           |
| 28                |            |          |             |           |           | 10.9        |             |             |             |             | 13.6        |             |           |
| 123               |            |          |             |           |           | 32.8        | 15.7        | 25.8        | 14.4        | 16.5        | 13.9        | 11.2        | 12        |
| 16                |            |          |             |           |           | 15.4        |             |             |             |             | 32.1        |             |           |
| 117               |            |          |             |           |           | 37.6        | 19.5        | 27.6        | 13.1        | 21          | 21.4        | 11.6        | 20        |
| 26                | 10         | 8.3      | 7.9         | 33        | 10        | 14.6        |             |             |             |             | 19.6        |             |           |
| 29                |            |          | 16          | 13        | 16        |             |             |             |             |             | 25.5        |             |           |
| 30                | 8.7        | 11       | 18          | 23        | 11        | 21          |             |             |             |             | 17.2        |             |           |
| 402               |            |          |             |           |           | 12          | 2           | 48.8        | 12.2        | 14.6        | 22.1        | 11.5        | 12        |
| 70                | 8.9        | 8.4      | 8.7         | 12        | 11        | 18.6        | 26.3        | 44.7        | 11.4        | 24.9        | 27.9        | 8.6         | 13        |
| 71                | 10         | 10       | 20          | 25        | 8         | 13.9        | 27.9        | 29.4        | 13.3        | 40          | 22.7        | 9.7         | 14        |
| <b>Averages</b>   | <b>9.8</b> | <b>9</b> | <b>13.1</b> | <b>21</b> | <b>11</b> | <b>22.1</b> | <b>21.1</b> | <b>36.2</b> | <b>13.2</b> | <b>19.7</b> | <b>22.2</b> | <b>11.6</b> | <b>14</b> |

<sup>1</sup> Order of plots (plots 11 [100 m] to 71 [21 km]) indicates increasing distance from the SHTC.

**Appendix 3-11.** Concentrations of iron (Fe, mg/kg dwt) in red-backed voles captured in the SHTC study area. **Baseline (1986-87):** Mean = 303, S.D. = 26. **Pearson's Correlation Coefficient 2024:**  $r(8) = -0.11$ . Weak negative correlation and significant ( $P = 0.001$ ,  $P < 0.05$ ).

| Plot <sup>1</sup> | 1994       | 1995       | 1996       | 1997       | 1998       | 2004       | 2009       | 2010       | 2011       | 2012       | 2014       | 2019       | 2024       |
|-------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 11                | 280        | 260        | 290        | 250        | 320        | 375        | 372        | 339        | 401        | 356        | 345        | 400        | 331        |
| 103               | 270        | 420        | 310        | 420        | 290        | 438        |            |            |            |            | 496        |            |            |
| 109               | 280        | 260        | 340        | 320        | 230        | 336        | 355        | 324        | 377        | 308        | 326        | 338        | 350        |
| 4                 | 280        | 280        |            | 400        | 390        | 373        | 362        | 447        | 481        | 371        | 448        | 388        | 420        |
| 110               |            |            |            |            |            | 388        | 393        | 420        | 637        | 309        | 318        | 292        | 337        |
| 104               |            |            |            |            |            |            |            |            |            |            | 346        |            |            |
| 102               |            |            |            |            |            |            |            |            |            |            | 297        |            |            |
| 1                 | 250        | 290        | 270        | 280        | 300        | 454        |            |            |            |            | 394        |            |            |
| 27                | 270        | 320        | 290        | 350        | 340        | 536        |            |            |            |            | 316        |            |            |
| 8                 | 400        | 280        | 350        | 240        | 260        | 713        |            |            |            |            | 477        |            |            |
| 15                |            |            | 200        | 270        | 310        | 458        |            |            |            |            | 291        |            |            |
| 114               | 400        | 290        |            | 235        | 250        | 393        | 401        | 339        | 424        | 292        | 246        | 331        | 295        |
| 121               |            |            |            |            |            | 513        |            |            |            |            | 321        |            |            |
| 9                 | 280        | 280        | 350        | 230        | 320        | 404        | 405        |            |            |            | 275        |            |            |
| 28                |            |            |            |            |            | 288        |            |            |            |            | 359        |            |            |
| 123               |            |            |            |            |            | 578        | 416        | 321        | 477        | 304        | 289        | 335        | 416        |
| 16                |            |            |            |            |            | 342        |            |            |            |            | 299        |            |            |
| 117               |            |            |            |            |            | 517        | 424        | 397        | 435        | 296        | 267        | 368        | 420        |
| 26                | 230        | 260        | 300        | 300        | 340        | 411        |            |            |            |            | 335        |            |            |
| 29                |            |            | 240        | 320        | 330        |            |            |            |            |            | 324        |            |            |
| 30                | 310        | 350        | 410        | 300        | 350        | 421        |            |            |            |            | 340        |            |            |
| 402               |            |            |            |            |            | 307        | 365        | 428        | 341        | 301        | 303        | 293        | 254        |
| 70                | 340        | 430        | 440        | 600        | 510        | 419        | 557        | 660        | 592        | 420        | 390        | 469        | 419        |
| 71                | 280        | 260        | 340        | 220        | 190        | 267        | 352        | 373        | 515        | 485        | 284        | 288        | 332        |
| <b>Averages</b>   | <b>291</b> | <b>300</b> | <b>317</b> | <b>314</b> | <b>313</b> | <b>425</b> | <b>400</b> | <b>405</b> | <b>468</b> | <b>344</b> | <b>337</b> | <b>350</b> | <b>357</b> |

<sup>1</sup> Order of plots (plots 11 [100 m] to 71 [21 km]) indicates increasing distance from the SHTC.

**Appendix 3-12.** Concentrations of lead (Pb, mg/kg dwt) in red-backed voles captured in the SHTC study area. **Baseline (1986-87):** Mean = 1.1, S.D. = 0.2. **Pearson's Correlation Coefficient 2024:**  $r(8) = -0.57$ . Moderate negative correlation but not significant ( $P = 0.10$ ,  $P > 0.05$ ).

| Plot <sup>1</sup> | 1994     | 1995     | 1996     | 1997     | 1998       | 2004         | 2009     | 2010       | 2011       | 2012       | 2014       | 2019       | 2024         |
|-------------------|----------|----------|----------|----------|------------|--------------|----------|------------|------------|------------|------------|------------|--------------|
| 11                | <1       | 1        | 1        | 2        | 1          | <1           | 1        | 1          | 1.4        | 0.9        | 1.59       | 1.50       | 0.368        |
| 103               | <1       | 3        | 3        | 15       | 4          | 3.7          |          |            |            |            | 13.4       |            |              |
| 109               | 2        | 1        | <1       | <1       | 1          | 2.1          | 1        | 1.1        | 2.7        | 1.6        | 2.76       | 2.38       | 0.778        |
| 4                 | 2        | <1       |          | 2        | 4          | 1.9          | 1.9      | 1.5        | 2          | 1          | 5.37       | 1.74       | 0.840        |
| 110               |          |          |          |          |            |              | 0<1      | 0.5        | 1.1        | 1          | 3.09       | 0.64       | 0.421        |
| 104               |          |          |          |          |            |              |          |            |            |            | 1.24       |            |              |
| 102               |          |          |          |          |            |              |          |            |            |            | 2.64       |            |              |
| 1                 | <1       | 3        | 2        | 4        | <1         | 1            |          |            |            |            | 2.56       |            |              |
| 27                | <1       | <1       | <1       | <1       | <1         | <1           |          |            |            |            | 0.866      |            |              |
| 8                 | <1       | 1        | <1       | <1       | <1         | <1           |          |            |            |            | 1.06       |            |              |
| 15                |          |          | <1       | <1       | <1         | <1           |          |            |            |            | 0.62       |            |              |
| 114               | 6        | 1        |          | <1       | <1         | <1           | 1        | 1.3        | 1.4        | 1.1        | 1.61       | 1.28       | 0.535        |
| 121               |          |          |          |          |            | <1           |          |            |            |            | 0.523      |            |              |
| 9                 | <1       | <1       | <1       | <1       | <1         | <1           | <1       |            |            |            | 0.57       |            |              |
| 28                |          |          |          |          |            | <1           |          |            |            |            | 0.4        |            |              |
| 123               |          |          |          |          |            | 1            | <1       | 0.5        | 0.9        | 0.6        | 0.602      | 0.50       | 0.391        |
| 16                |          |          |          |          |            | <1           |          |            |            |            | 0.456      |            |              |
| 117               |          |          |          |          |            | <1           | 1        | 0.9        | 0.8        | 0.4        | 0.605      | 0.71       | 0.262        |
| 26                | <1       | 1        | 1        | <1       | <1         | <1           |          |            |            |            | 0.361      |            |              |
| 29                |          |          | <1       | <1       | <1         |              |          |            |            |            | 0.417      |            |              |
| 30                | 2        | <1       | 1        | <1       | <1         | <1           |          |            |            |            | 0.369      |            |              |
| 402               |          |          |          |          |            | <1           | <1       | 0.3        | 0.8        | 0.4        | 0.348      | 0.23       | 0.088        |
| 70                | <1       | 1        | 1        | 1        | <1         | <1           | 1        | 2.2        | 1.7        | 0.9        | 0.981      | 0.94       | 0.296        |
| 71                | 2        | <1       | <1       | <1       | <1         | <1           | <1       | 0.3        | 0.4        | 0.8        | 0.397      | 0.25       | 0.201        |
| <b>Averages</b>   | <b>1</b> | <b>1</b> | <b>1</b> | <b>2</b> | <b>1.1</b> | <b>&lt;1</b> | <b>1</b> | <b>1.0</b> | <b>1.3</b> | <b>0.9</b> | <b>1.8</b> | <b>1.0</b> | <b>0.418</b> |

<sup>1</sup> Order of plots (plots 11 [100 m] to 71 [21 km]) indicates increasing distance from the SHTC.

**Appendix 3-13.** Concentrations of magnesium (Mg, mg/kg dwt) in red-backed voles captured in the SHTC study area. **Baseline (1986-87):** Mean = 1500, S.D. = 100. **Pearson's Correlation Coefficient 2024:**  $r(8) = -0.05$ . Weak negative correlation and significant ( $P = 0.001$ ,  $P < 0.05$ ).

| Plot <sup>1</sup> | 1994        | 1995        | 1996        | 1997        | 1998        | 2004        | 2009        | 2010        | 2011        | 2012        | 2014        | 2019        | 2024        |
|-------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 11                | 1400        | 1400        | 1000        | 1200        | 1200        | 1396        | 1668        | 1836        | 1897        | 1386        | 1540        | 1659        | 1050        |
| 103               | 1200        | 1500        | 1100        | 1300        | 1100        |             |             |             |             |             | 1690        |             |             |
| 109               | 1100        | 1300        | 1200        | 1200        | 1400        | 1293        | 1813        | 1508        | 1775        | 1164        | 1460        | 1400        | 1350        |
| 4                 | 1200        | 1300        |             | 1200        | 1300        | 1546        | 1588        | 1534        | 1763        | 1309        | 1630        | 1432        | 1240        |
| 110               |             |             |             |             |             | 1465        | 1672        | 1721        | 1969        | 1298        | 1570        | 1473        | 1460        |
| 104               |             |             |             |             |             |             |             |             |             |             | 1430        |             |             |
| 102               |             |             |             |             |             |             |             |             |             |             | 1550        |             |             |
| 1                 | 1200        | 1200        | 1150        | 1300        | 1000        | 1781        |             |             |             |             | 1420        |             |             |
| 27                | 1500        | 1500        | 1100        | 1300        | 1300        | 1592        |             |             |             |             | 1650        |             |             |
| 8                 | 1300        | 1400        | 1200        | 1400        | 1200        | 1835        |             |             |             |             | 1670        |             |             |
| 15                |             |             | 1000        | 1200        | 1300        | 1488        |             |             |             |             | 1720        |             |             |
| 114               | 1500        | 1300        |             | 1200        | 1200        | 1421        | 1649        | 1336        | 2733        | 1401        | 1600        | 1273        | 1280        |
| 121               |             |             |             |             |             | 1709        |             |             |             |             | 1490        |             |             |
| 9                 | 1200        | 1400        | 1100        | 1400        | 1500        | 1770        | 2038        |             |             |             | 1610        |             |             |
| 28                |             |             |             |             |             | 1076        |             |             |             |             | 1760        |             |             |
| 123               |             |             |             |             |             | 1548        | 1557        | 1882        | 1935        | 1397        | 1380        | 1869        | 1330        |
| 16                |             |             |             |             |             | 1377        |             |             |             |             | 1680        |             |             |
| 117               |             |             |             |             |             | 1617        | 1767        | 2023        | 2385        | 1462        | 1610        | 1495        | 1340        |
| 26                | 1100        | 1200        | 1000        | 1150        | 1300        | 1493        |             |             |             |             | 1550        |             |             |
| 29                |             |             | 1300        | 1300        | 1200        |             |             |             |             |             | 1620        |             |             |
| 30                | 1400        | 1400        | 1300        | 1400        | 1300        | 1513        |             |             |             |             | 1570        |             |             |
| 402               |             |             |             |             |             | 1641        | 1870        | 2137        | 1924        | 1294        | 1590        | 1604        | 1460        |
| 70                | 1400        | 1400        | 1000        | 1200        | 1300        | 1431        | 1786        | 1771        | 2191        | 1378        | 1550        | 1809        | 1090        |
| 71                | 1300        | 2000        | 1300        | 1400        | 1300        | 1467        | 1714        | 2214        | 1492        | 1443        | 1580        | 1597        | 1320        |
| <b>Averages</b>   | <b>1307</b> | <b>1427</b> | <b>1113</b> | <b>1258</b> | <b>1259</b> | <b>1512</b> | <b>1738</b> | <b>1796</b> | <b>2006</b> | <b>1353</b> | <b>1580</b> | <b>1561</b> | <b>1292</b> |

<sup>1</sup> Order of plots (plots 11 [100 m] to 71 [21 km]) indicates increasing distance from the SHTC.

**Appendix 3-14.** Concentrations of manganese (Mn, mg/kg dwt) in red-backed voles captured in the SHTC study area. **Baseline (1986-87):** Mean = 23, S.D. = 5.5. **Pearson's Correlation Coefficient 2024:**  $r(8) = -0.05$ . Weak negative correlation and significant ( $P = 0.002$ ,  $P < 0.05$ ).

| Plot <sup>1</sup> | 1994      | 1995      | 1996      | 1997      | 1998      | 2004      | 2009      | 2010      | 2011      | 2012      | 2014      | 2019      | 2024      |
|-------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 11                | 54        | 35        | 34        | 21        | 55        | 44        | 45        | 38        | 47        | 30        | 49.1      | 41        | 38        |
| 103               | 24        | 28        | 41        | 21        | 48        | 27        |           |           |           |           | 35.1      |           |           |
| 109               | 31        | 27        | 22        | 41        | 38        | 23        | 36        | 43        | 28        | 33        | 46.8      | 62        | 31        |
| 4                 | 22        | 21        |           | 38        | 33        | 28        | 52        | 51        | 38        | 35        | 32.3      | 43        | 32        |
| 110               |           |           |           |           |           | 23        | 36        | 53        | 60        | 43        | 56.7      | 56        | 54        |
| 104               |           |           |           |           |           |           |           |           |           |           | 39.2      |           |           |
| 102               |           |           |           |           |           |           |           |           |           |           | 52.4      |           |           |
| 1                 | 27        | 56        | 45        | 61        | 32        | 84        |           |           |           |           | 46.2      |           |           |
| 27                | 40        | 26        | 16        | 22        | 34        | 36        |           |           |           |           | 49.3      |           |           |
| 8                 | 61        | 39        | 24        | 35        | 16        | 29        |           |           |           |           | 59.9      |           |           |
| 15                |           |           | 18        | 31        | 60        | 67        |           |           |           |           | 27        |           |           |
| 114               | 59        | 30        |           | 63        | 45        | 32        | 66        | 43        | 25        | 57        | 34        | 49        | 31        |
| 121               |           |           |           |           |           | 73        |           |           |           |           | 40.1      |           |           |
| 9                 | 32        | 44        | 41        | 28        | 47        | 61        | 75        |           |           |           | 37.9      |           |           |
| 28                |           |           |           |           |           | 27        |           |           |           |           | 42.8      |           |           |
| 123               |           |           |           |           |           | 66        | 39        | 123       | 76        | 80        | 68.8      | 119       | 114       |
| 16                |           |           |           |           |           | 30        |           |           |           |           | 42.3      |           |           |
| 117               |           |           |           |           |           | 44        | 43        | 74        | 64        | 43        | 49.7      | 79        | 23        |
| 26                | 25        | 26        | 31        | 27        | 52        | 20        |           |           |           |           | 30.1      |           |           |
| 29                |           |           | 40        | 45        | 45        |           |           |           |           |           | 48.2      |           |           |
| 30                | 33        | 39        | 27        | 97        | 29        | 51        |           |           |           |           | 40.8      |           |           |
| 402               |           |           |           |           |           | 47        | 60        | 54        | 39        | 42        | 36.9      | 75        | 33        |
| 70                | 17        | 54        | 26        | 50        | 45        | 38        | 39        | 42        | 57        | 34        | 38.3      | 54        | 29        |
| 71                | 22        | 30        | 24        | 18        | 14        | 29        | 60        | 47        | 36        | 47        | 46.6      | 41        | 44        |
| <b>Averages</b>   | <b>33</b> | <b>37</b> | <b>28</b> | <b>39</b> | <b>41</b> | <b>42</b> | <b>50</b> | <b>57</b> | <b>47</b> | <b>44</b> | <b>44</b> | <b>62</b> | <b>43</b> |

<sup>1</sup> Order of plots (plots 11 [100 m] to 71 [21 km]) indicates increasing distance from the SHTC.



**Appendix 3-15.** Concentrations of mercury (Hg, mg/kg dwt) in red-backed voles captured in the SHTC study area. **Baseline (1986-87):** Mean = 0.30, S.D. = 0.13. **Pearson's Correlation Coefficient 2024:**  $r(8) = -0.11$ . Weak negative correlation and not significant ( $P = 0.08$ ,  $P > 0.05$ ).

| Plot <sup>1</sup> | 1994        | 1995        | 1996        | 1997        | 1998        | 2004        | 2009         | 2010        | 2011        | 2012        | 2014        | 2019        | 2024         |
|-------------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|--------------|
| 11                | 0.14        | 0.36        | 0.38        | 0.16        | 0.32        | 0.32        | <sup>2</sup> | 0.28        | 0.48        | 0.31        | 0.378       | 0.21        | 0.320        |
| 103               | 0.2         | 0.82        | 0.89        | 0.19        | 0.42        | 0.38        |              |             |             |             | 0.358       |             |              |
| 109               | 0.37        | 0.45        | 0.44        | 0.08        | 0.2         | 0.25        |              | 0.35        | 0.79        | 0.29        | 0.266       | 0.17        | 0.214        |
| 4                 | 0.09        | 0.37        |             | 0.49        | 0.04        | 0.27        |              | 0.39        | 0.8         | 0.3         | 0.385       | 0.26        | 0.347        |
| 110               |             |             |             |             |             | 0.27        |              | 0.29        | 0.55        | 0.34        | 0.304       | 0.23        | 0.280        |
|                   |             |             |             |             |             |             |              |             |             |             | 0.32        |             |              |
|                   |             |             |             |             |             |             |              |             |             |             | 0.36        |             |              |
| 1                 | 0.27        | 0.39        | 0.51        | 0.12        | 0.08        | 0.19        |              |             |             |             | 0.355       |             |              |
| 27                | 0.05        | 0.24        | 0.34        | 0.11        | 0.28        | 0.16        |              |             |             |             | 0.333       |             |              |
| 8                 | 0.06        | 0.18        | 0.22        | 0.16        | 0.03        | 0.09        |              |             |             |             | 0.268       |             |              |
| 15                |             |             | 0.59        | 0.27        | 0.34        | 0.12        |              |             |             |             | 0.4         |             |              |
| 114               | 0.03        | 0.94        |             | 0.16        | 0.02        | 0.21        |              | 0.12        | 0.34        | 0.2         | 0.239       | 0.20        | 0.244        |
| 121               |             |             |             |             |             | 0.09        |              |             |             |             | 0.337       |             |              |
| 9                 | 0.05        | 0.1         | 0.33        | 0.09        | 0.19        | 0.04        |              |             |             |             | 0.285       |             |              |
| 28                |             |             |             |             |             | 0.16        |              |             |             |             | 0.367       |             |              |
| 123               |             |             |             |             |             | 0.15        |              | 0.27        | 0.63        | 0.32        | 0.315       | 0.23        | 0.425        |
| 16                |             |             |             |             |             | 0.19        |              |             |             |             | 0.234       |             |              |
| 117               |             |             |             |             |             | 0.1         |              | 0.2         | 0.58        | 0.29        | 0.223       | 0.20        | 0.125        |
| 26                | 0.16        | 0.27        | 0.38        | 0.14        | 0.19        | 0.15        |              |             |             |             | 0.245       |             |              |
| 29                |             |             | 0.27        | 0.32        | 0.19        |             |              |             |             |             | 0.278       |             |              |
| 30                | 0.02        | 0.24        | 0.33        | 0.08        | 0.14        | 0.13        |              |             |             |             | 0.326       |             |              |
| 402               |             |             |             |             |             | 0.11        |              | 0.14        | 0.27        | 0.18        | 0.22        | 0.12        | 0.092        |
| 70                | <0.02       | 0.17        | 0.26        | 0.11        | 0.22        | 0.12        |              | 0.44        | 0.59        | 0.32        | 0.407       | 0.27        | 0.293        |
| 71                | <0.02       | 0.18        | 0.11        | 0.12        | 0.15        | 0.1         |              | 0.14        | 0.41        | 0.2         | 0.231       | 0.20        | 0.260        |
| <b>Averages</b>   | <b>0.11</b> | <b>0.36</b> | <b>0.39</b> | <b>0.19</b> | <b>0.21</b> | <b>0.17</b> |              | <b>0.26</b> | <b>0.54</b> | <b>0.28</b> | <b>0.31</b> | <b>0.21</b> | <b>0.260</b> |

<sup>1</sup> Order of plots (plots 11 [100 m] to 71 [21 km]) indicates increasing distance from the SHTC.

<sup>2</sup> Blanks indicate plots and years where the metal was not analyzed.

**Appendix 3-16.** Concentrations of molybdenum (Mo, mg/kg dwt) in red-backed voles captured in the SHTC study area. **Baseline (1986-87):** Mean = 1.1, S.D. = 0.03. **Pearson's Correlation Coefficient 2024:**  $r(8) = 0.61$ . Moderate positive correlation but not significant ( $P = 0.10$ ,  $P > 0.05$ ).

| Plot <sup>1</sup> | 1994         | 1995     | 1996         | 1997         | 1998         | 2004         | 2009       | 2010       | 2011       | 2012       | 2014       | 2019       | 2024         |
|-------------------|--------------|----------|--------------|--------------|--------------|--------------|------------|------------|------------|------------|------------|------------|--------------|
| 11                | <1           | 1        | <1           | <1           | 1            | <1           | 0.4        | 0.5        | 0.6        | 0.6        | 0.653      | 0.570      | 0.490        |
| 103               | <1           | 2        | 2            | <1           | <1           | <1           |            |            |            |            | 1.06       |            |              |
| 109               | <1           | 1        | <1           | <1           | <1           | <1           | 0.8        | 0.5        | 0.6        | 0.6        | 0.595      | 0.541      | 0.568        |
| 4                 | <1           | <1       |              | <1           | <1           | <1           | 0.8        | 0.6        | 0.8        | 0.5        | 0.714      | 0.554      | 0.522        |
| 110               |              |          |              |              |              | <1           | 0.4        | 0.6        | 0.7        | 0.6        | 0.606      | 0.435      | 0.485        |
| 104               |              |          |              |              |              |              |            |            |            |            | 0.6        |            |              |
| 102               |              |          |              |              |              |              |            |            |            |            | 0.552      |            |              |
| 1                 | <1           | 1        | 1            | <1           | 2            | 1.5          |            |            |            |            | 0.664      |            |              |
| 27                | <1           | <1       | <1           | <1           | <1           | <1           |            |            |            |            | 0.549      |            |              |
| 8                 | <1           | 1        | <1           | <1           | <1           | 1.4          |            |            |            |            | 0.67       |            |              |
| 15                |              |          | <1           | <1           | <1           | <1           |            |            |            |            | 0.534      |            |              |
| 114               | <1           | 1        |              | <1           | <1           | <1           | 0.8        | 0.6        | 0.6        | 0.6        | 0.594      | 0.574      | 0.533        |
| 121               |              |          |              |              |              | <1           |            |            |            |            | 0.581      |            |              |
| 9                 | <1           | 1        | <1           | <1           | <1           | <1           | 0.4        |            |            |            | 0.546      |            |              |
| 28                |              |          |              |              |              | <1           |            |            |            |            | 0.57       |            |              |
| 123               |              |          |              |              |              | 2            | 0.4        | 0.6        | 0.7        | 0.5        | 0.495      | 0.522      | 0.615        |
| 16                |              |          |              |              |              | <1           |            |            |            |            | 0.586      |            |              |
| 117               |              |          |              |              |              | <1           | 0.4        | 0.7        | 0.7        | 0.6        | 0.585      | 0.538      | 0.492        |
| 26                | <1           | 1        | 1            | <1           | 1            | <1           |            |            |            |            | 0.539      |            |              |
| 29                |              |          | 1            | <1           | <1           |              |            |            |            |            | 0.558      |            |              |
| 30                | <1           | 1        | 1            | <1           | <1           | <1           |            |            |            |            | 0.568      |            |              |
| 402               |              |          |              |              |              | <1           | 0.4        | 0.5        | 0.5        | 0.5        | 0.551      | 0.475      | 0.545        |
| 70                | <1           | 1        | 1            | <1           | <1           | <1           | 0.8        | 0.6        | 0.6        | 0.4        | 0.528      | 0.431      | 0.555        |
| 71                | <1           | 2        | 1            | <1           | <1           | <1           | 0.8        | 0.5        | 0.7        | 0.6        | 0.549      | 0.861      | 0.620        |
| <b>Averages</b>   | <b>&lt;1</b> | <b>1</b> | <b>&lt;1</b> | <b>&lt;1</b> | <b>&lt;1</b> | <b>&lt;1</b> | <b>0.6</b> | <b>0.6</b> | <b>0.7</b> | <b>0.6</b> | <b>0.6</b> | <b>0.6</b> | <b>0.543</b> |

<sup>1</sup> Order of plots (plots 11 [100 m] to 71 [21 km]) indicates increasing distance from the SHTC.

**Appendix 3-17.** Concentrations of nickel (Ni, mg/kg dwt) in red-backed voles captured in the SHTC study area. **Baseline (1986-87):** Mean = 2.0, S.D. = 0.1. **Pearson's Correlation Coefficient 2024:**  $r(8) = 0.03$ . Weak positive correlation but not significant ( $P = 0.10$ ,  $P > 0.05$ ).

| Plot <sup>1</sup> | 1994       | 1995       | 1996       | 1997       | 1998       | 2004       | 2009       | 2010       | 2011       | 2012       | 2014       | 2019       | 2024         |
|-------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|--------------|
| 11                | 0.4        | 1.5        | 1.1        | 1.2        | 0.8        | 0.9        | 2.3        | 1.1        | 0.6        | 3.8        | 3.64       | 6.74       | 0.450        |
| 103               | 0.6        | 1.4        | 2.2        | 2.1        | 1.2        | 3.8        |            |            |            |            | 7.72       |            |              |
| 109               | <0.2       | 1.4        | 1.8        | 2.2        | 1.2        | 52.9       | 3.1        | 34.1       | 3.4        | 4.9        | 2.36       | 0.52       | 0.430        |
| 4                 | 0.8        | 1          |            | 0.9        | 2.2        | 3.5        | 2.7        | 1.7        | 2.5        | 1.4        | 3.56       | 0.47       | 0.530        |
| 110               |            |            |            |            |            | 1.4        | 3.4        | 0.7        | 3.1        | 4.5        | 3.07       | 0.54       | 0.460        |
| 104               |            |            |            |            |            |            |            |            |            |            | 3.38       |            |              |
| 102               |            |            |            |            |            |            |            |            |            |            | 4.44       |            |              |
| 1                 | 0.9        | 1.4        | 0.8        | 1.2        | 0.9        | 1.2        |            |            |            |            | 4.58       |            |              |
| 27                | <0.2       | 1.6        | 1.7        | 1.2        | 1.5        | 1.1        |            |            |            |            | 4.42       |            |              |
| 8                 | 0.3        | 1.9        | 2.7        | 1.6        | 2.2        | 1.7        |            |            |            |            | 5.66       |            |              |
| 15                |            |            | 0.7        | 1          | 0.7        | 53.5       |            |            |            |            | 6.9        |            |              |
| 114               | 1.2        | 1.2        |            | 0.8        | 1          | 3.7        | 1.5        | 2          | 0.6        | 2.4        | 2.79       | 0.51       | 0.460        |
| 121               |            |            |            |            |            | 8.6        |            |            |            |            | 3.43       |            |              |
| 9                 | 0.5        | 2          | 1.7        | 1.8        | 1.7        | 8.4        | 3.8        |            |            |            | 6.19       |            |              |
| 28                |            |            |            |            |            | 1.1        |            |            |            |            | 3.15       |            |              |
| 123               |            |            |            |            |            | 2.1        | 4.2        | 0.9        | 1.2        | 3.8        | 4.44       | 0.48       | 0.700        |
| 16                |            |            |            |            |            | 20.5       |            |            |            |            | 4.22       |            |              |
| 117               |            |            |            |            |            | 3.6        | 7.3        | 1.5        | 1.3        | 4.8        | 3.05       | 0.53       | 0.470        |
| 26                | <0.2       | 1.4        | 2          | 0.9        | 1.3        | 1          |            |            |            |            | 2.83       |            |              |
| 29                |            |            | 1.7        | 1.1        | 1          |            |            |            |            |            | 4.88       |            |              |
| 30                | 0.7        | 1.6        | 3.2        | 1.7        | 1.3        | 5          |            |            |            |            | 2.58       |            |              |
| 402               |            |            |            |            |            | 3          | 3.8        | 1.5        | 0.6        | 3.8        | 3.55       | 1.05       | 1.020        |
| 70                | 0.9        | 2          | 1.5        | 2.1        | 1.7        | 2.3        | 1.9        | 1.3        | 1.1        | 6.8        | 4.98       | 0.50       | 0.420        |
| 71                | 0.3        | 1.5        | 2.1        | 1.1        | 0.8        | 0.9        | 4.6        | 3.2        | 1.1        | 16         | 3.35       | 0.75       | 0.440        |
| <b>Averages</b>   | <b>0.5</b> | <b>1.5</b> | <b>1.7</b> | <b>1.4</b> | <b>1.3</b> | <b>8.6</b> | <b>3.5</b> | <b>4.8</b> | <b>1.6</b> | <b>5.2</b> | <b>4.1</b> | <b>1.2</b> | <b>0.538</b> |

<sup>1</sup> Order of plots (plots 11 [100 m] to 71 [21 km]) indicates increasing distance from the SHTC.

**Appendix 3-18.** Concentrations of phosphorus (P, mg/kg dwt) in red-backed voles captured in the SHTC study area. **Baseline (1986-87):** Mean = 24,000, S.D. = 3,300. **Pearson's Correlation Coefficient 2024:**  $r(8) = 0.32$ . Weak positive correlation and significant ( $P = 0.001$ ,  $P < 0.05$ ).

| Plot <sup>1</sup> | 1994         | 1995         | 1996         | 1997         | 1998         | 2004         | 2009         | 2010         | 2011         | 2012         | 2014         | 2019         | 2024         |
|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 11                | 26500        | 22300        | 19100        | 18800        | 20500        | 19393        | 42748        | 40076        | 34046        | 22748        | 23200        | 26667        | 15100        |
| 103               | 21300        | 25600        | 19000        | 22000        | 16500        | 17731        |              |              |              |              | 26500        |              |              |
| 109               | 19100        | 20700        | 17800        | 18800        | 22900        | 16750        | 46565        | 27786        | 31908        | 18092        | 21100        | 25379        | 23500        |
| 4                 | 22000        | 20000        |              | 18500        | 23000        | 24115        | 35000        | 27214        | 28473        | 22863        | 24700        | 23537        | 18700        |
| 110               |              |              |              |              |              | 18077        | 30267        | 29160        | 37863        | 22977        | 24000        | 27385        | 25300        |
| 104               |              |              |              |              |              |              |              |              |              |              | 19300        |              |              |
| 102               |              |              |              |              |              |              |              |              |              |              | 24000        |              |              |
| 1                 | 21000        | 17900        | 17700        | 24600        | 24400        | 27500        |              |              |              |              | 20500        |              |              |
| 27                | 23900        | 21600        | 18900        | 20200        | 21100        | 21280        |              |              |              |              | 24100        |              |              |
| 8                 | 24200        | 19300        | 20000        | 19800        | 18100        | 28217        |              |              |              |              | 24000        |              |              |
| 15                |              |              | 20000        | 20500        | 23700        | 19538        |              |              |              |              | 26300        |              |              |
| 114               | 25000        | 21300        |              | 19250        | 22400        | 19893        | 32251        | 22366        | 51145        | 27824        | 21500        | 19619        | 20000        |
| 121               |              |              |              |              |              | 26348        |              |              |              |              | 21800        |              |              |
| 9                 | 18800        | 21600        | 18100        | 23500        | 25400        | 22826        | 41603        |              |              |              | 22700        |              |              |
| 28                |              |              |              |              |              | 16040        |              |              |              |              | 27000        |              |              |
| 123               |              |              |              |              |              | 23222        | 33130        | 36260        | 29733        | 24657        | 20900        | 36332        | 20400        |
| 16                |              |              |              |              |              | 19077        |              |              |              |              | 23900        |              |              |
| 117               |              |              |              |              |              | 26069        | 34771        | 35458        | 42748        | 27824        | 21800        | 27401        | 21300        |
| 26                | 16200        | 18900        | 16400        | 22150        | 23100        | 21185        |              |              |              |              | 22400        |              |              |
| 29                |              |              | 21900        | 21600        | 21300        |              |              |              |              |              | 22400        |              |              |
| 30                | 24000        | 20100        | 19200        | 21900        | 21300        | 19875        |              |              |              |              | 23600        |              |              |
| 402               |              |              |              |              |              | 21963        | 29962        | 39313        | 33664        | 22519        | 23000        | 28453        | 19600        |
| 70                | 21300        | 18600        | 17100        | 19400        | 22800        | 21038        | 39313        | 30382        | 48855        | 24389        | 22800        | 35764        | 18800        |
| 71                | 24500        | 21600        | 24100        | 27200        | 24300        | 21700        | 29771        | 38931        | 22290        | 22939        | 22400        | 27949        | 25400        |
| <b>Averages</b>   | <b>22447</b> | <b>21273</b> | <b>19250</b> | <b>21028</b> | <b>21835</b> | <b>21516</b> | <b>35944</b> | <b>32695</b> | <b>36073</b> | <b>23683</b> | <b>23079</b> | <b>27849</b> | <b>20810</b> |

<sup>1</sup> Order of plots (plots 11 [100 m] to 71 [21 km]) indicates increasing distance from the SHTC.

**Appendix 3-19.** Concentrations of potassium (K, mg/kg dwt) in red-backed voles captured in the SHTC study area. **Baseline (1986-87):** Mean = 12,700, S.D. = 1,300. **Pearson's Correlation Coefficient 2024:**  $r(8) = -0.21$ . Weak negative correlation and significant ( $P = 0.001$ ,  $P < 0.05$ ).

| Plot <sup>1</sup> | 1994         | 1995         | 1996         | 1997         | 1998         | 2004         | 2009         | 2010         | 2011         | 2012         | 2014         | 2019         | 2024         |
|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 11                | 17500        | 18600        | 11700        | 10000        | 10000        | 11750        | 13359        | 12748        | 15916        | 13473        | 12000        | 11037        | 10600        |
| 103               | 14700        | 19300        | 10500        | 11500        | 8500         | 9730         |              |              |              |              | 11400        |              |              |
| 109               | 12000        | 18200        | 11500        | 10300        | 11000        | 11286        | 12786        | 13550        | 16679        | 12137        | 10700        | 11000        | 11100        |
| 4                 | 10300        | 17300        |              | 10700        | 10200        | 12192        | 12214        | 12710        | 17977        | 12519        | 12100        | 11020        | 11800        |
| 110               |              |              |              |              |              | 13269        | 12481        | 13435        | 16221        | 12977        | 11900        | 11307        | 11200        |
| 104               |              |              |              |              |              |              |              |              |              |              | 10500        |              |              |
| 102               |              |              |              |              |              |              |              |              |              |              | 11900        |              |              |
| 1                 | 10400        | 14800        | 11800        | 12000        | 9600         | 12654        |              |              |              |              | 11300        |              |              |
| 27                | 14100        | 18800        | 12200        | 11300        | 10500        | 10600        |              |              |              |              | 11100        |              |              |
| 8                 | 9700         | 19900        | 11400        | 11700        | 9200         | 10565        |              |              |              |              | 11500        |              |              |
| 15                |              |              | 12300        | 11700        | 11500        | 9885         |              |              |              |              | 11600        |              |              |
| 114               | 15200        | 20700        |              | 10050        | 9600         | 11536        | 12901        | 13168        | 19008        | 12290        | 10400        | 10934        | 10900        |
| 121               |              |              |              |              |              | 11522        |              |              |              |              | 11300        |              |              |
| 9                 | 14600        | 17600        | 12200        | 12300        | 11200        | 12522        | 13468        |              |              |              | 10700        |              |              |
| 28                |              |              |              |              |              | 7800         |              |              |              |              | 11700        |              |              |
| 123               |              |              |              |              |              | 12111        | 12366        | 13779        | 19008        | 12481        | 9190         | 11246        | 12500        |
| 16                |              |              |              |              |              | 10038        |              |              |              |              | 10800        |              |              |
| 117               |              |              |              |              |              | 10966        | 12137        | 13168        | 19313        | 12977        | 10300        | 11119        | 11100        |
| 26                | 13800        | 16700        | 10800        | 10750        | 10200        | 11704        |              |              |              |              | 10700        |              |              |
| 29                |              |              | 12200        | 10600        | 11000        |              |              |              |              |              | 12200        |              |              |
| 30                | 13000        | 20200        | 10500        | 11300        | 10400        | 11542        |              |              |              |              | 10700        |              |              |
| 402               |              |              |              |              |              | 13000        | 13588        | 13512        | 15802        | 12137        | 10600        | 12518        | 13100        |
| 70                | 13900        | 19600        | 11800        | 12000        | 11400        | 12654        | 12290        | 12366        | 16985        | 11221        | 10900        | 10903        | 99800        |
| 71                | 10800        | 17500        | 11400        | 9800         | 9100         | 12567        | 12748        | 14962        | 20115        | 13817        | 10800        | 12344        | 10700        |
| <b>Averages</b>   | <b>13233</b> | <b>18433</b> | <b>11538</b> | <b>11200</b> | <b>10224</b> | <b>11423</b> | <b>12758</b> | <b>13340</b> | <b>17702</b> | <b>12603</b> | <b>11095</b> | <b>11343</b> | <b>11298</b> |

<sup>1</sup> Order of plots (plots 11 [100 m] to 71 [21 km]) indicates increasing distance from the SHTC.

**Appendix 3-20.** Concentrations of selenium (Se, mg/kg dwt) in red-backed voles captured in the SHTC study area. **Baseline (1986-87):** Mean = 0.59, S.D. = 0.07. **Pearson's Correlation Coefficient 2024:**  $r(8) = 0.07$ . Weak positive correlation but not significant ( $P = 0.12$ ,  $P > 0.05$ ).

| Plot <sup>1</sup> | 1994       | 1995       | 1996       | 1997       | 1998           | 2004       | 2009       | 2010       | 2011           | 2012       | 2014       | 2019       | 2024       |
|-------------------|------------|------------|------------|------------|----------------|------------|------------|------------|----------------|------------|------------|------------|------------|
| 11                | 0.8        | 0.9        | 0.3        | 0.7        | <0.2           | 1.1        | 0.8        | 0.9        | <0.4           | 0.9        | 1.03       | 0.81       | 0.87       |
| 103               | 0.6        | 0.8        | 2.3        | 0.8        | <0.2           | 1.2        |            |            |                |            | 1.22       |            |            |
| 109               | 0.7        | 0.4        | 0.2        | 0.4        | <0.2           | 1.4        | 1.1        | 0.9        | <0.4           | 0.8        | 1.04       | 0.70       | 0.81       |
| 4                 | 0.8        | 1          |            | 1          | <0.2           | 1.5        | 1.1        | 0.8        | <0.4           | 0.8        | 1.0        | 0.79       | 0.97       |
| 110               |            |            |            |            |                | 1.5        | 1.1        | 0.8        | <0.4           | 0.8        | 1.03       | 0.75       | 0.80       |
| 104               |            |            |            |            |                |            |            |            |                |            | 0.83       |            |            |
| 102               |            |            |            |            |                |            |            |            |                |            | 0.96       |            |            |
| 1                 | 0.8        | 1.4        | 0.7        | 1          | <0.2           | 1.2        |            |            |                |            | 1.04       |            |            |
| 27                | 0.7        | 0.8        | 0.3        | 0.6        | <0.2           | 1.6        |            |            |                |            | 1.02       |            |            |
| 8                 | 0.7        | 1.1        | <0.2       | 0.6        | <0.2           | 1.3        |            |            |                |            | 1.12       |            |            |
| 15                |            |            |            | 0.7        | <0.2           | 1.2        |            |            |                |            | 0.85       |            |            |
| 114               | 0.8        | 0.7        |            | 0.6        | <0.2           | 1.4        | 1.1        | 0.9        | <0.4           | 1.1        | 0.91       | 0.76       | 0.85       |
| 121               |            |            |            |            |                | 1.3        |            |            |                |            | 0.94       |            |            |
| 9                 | 0.8        | 1          | <0.2       | 0.9        | <0.2           | 1.3        | 1.1        |            |                |            | 1.11       |            |            |
| 28                |            |            |            |            |                | 0.4        |            |            |                |            | 0.92       |            |            |
| 123               |            |            |            |            |                | 1.5        | 1.1        | 0.7        | <0.4           | 1          | 0.92       | 0.74       | 0.95       |
| 16                |            |            |            |            |                | 1.2        |            |            |                |            | 0.93       |            |            |
| 117               |            |            |            |            |                | 1.4        | 1.1        | 0.9        | <0.4           | 0.9        | 0.98       | 0.92       | 0.70       |
| 26                | 0.8        | 0.9        | 0.3        | 0.3        | <0.2           | 1.5        |            |            |                |            | 0.78       |            |            |
| 29                |            |            | 1.4        | 0.8        | <0.2           |            |            |            |                |            | 0.84       |            |            |
| 30                | 0.8        | 0.9        | 1.4        | 0.6        | <0.2           | 1.3        |            |            |                |            | 1.03       |            |            |
| 402               |            |            |            |            |                | 1.1        | 1.1        | 0.8        | <0.4           | 0.8        | 0.98       | 0.71       | 0.99       |
| 70                | 0.8        | 0.7        | 0.8        | 0.5        | <0.2           | 1.2        | 1.1        | 0.8        | <0.4           | 0.8        | 1.09       | 0.66       | 0.70       |
| 71                | 0.7        | 1          | 1.8        | 0.9        | <0.2           | 1.3        | 1.1        | 0.9        | <0.4           | 1.1        | 1.15       | 0.85       | 0.89       |
| <b>Averages</b>   | <b>0.8</b> | <b>0.9</b> | <b>0.7</b> | <b>0.7</b> | <b>&lt;0.2</b> | <b>1.3</b> | <b>1.1</b> | <b>0.8</b> | <b>&lt;0.4</b> | <b>0.9</b> | <b>1.0</b> | <b>0.8</b> | <b>0.8</b> |

<sup>1</sup> Order of plots (plots 11 [100 m] to 71 [21 km]) indicates increasing distance from the SHTC.

**Appendix 3-21.** Concentrations of silver (Ag, mg/kg dwt) in red-backed voles captured in the SHTC study area. **Baseline (1986-87):** Mean = <0.2, S.D. = 0.0. **Pearson's Correlation Coefficient 2024:**  $r(8) = -0.33$ . Weak negative correlation but not significant ( $P = 0.07$ ,  $P > 0.05$ ).

| Plot <sup>1</sup> | 1994           | 1995           | 1996           | 1997           | 1998           | 2004           | 2009           | 2010        | 2011        | 2012        | 2014         | 2019        | 2024        |
|-------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-------------|-------------|-------------|--------------|-------------|-------------|
| 11                | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           | <0.02       | 0.05        | 0.02        | <0.08        | 0.02        | 0.01        |
| 103               | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           |                |             |             |             | 0.085        |             |             |
| 109               | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           | <0.02       | <0.03       | 0.03        | <0.08        | 0.02        | 0.01        |
| 4                 | <0.2           | <0.2           |                | <0.2           | <0.2           | <0.2           | <0.2           | <0.02       | <0.03       | 0.05        | <0.08        | 0.04        | 0.01        |
| 110               |                |                |                |                |                | <0.2           | <0.2           | <0.02       | <0.04       | 0.02        | <0.08        | 0.01        | 0.01        |
| 104               |                |                |                |                |                |                |                |             |             |             | <0.08        |             |             |
| 102               |                |                |                |                |                |                |                |             |             |             | <0.08        |             |             |
| 1                 | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           |                |             |             |             | <0.08        |             |             |
| 27                | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           |                |             |             |             | <0.08        |             |             |
| 8                 | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           |                |             |             |             | <0.08        |             |             |
| 15                |                |                |                | <0.2           | <0.2           | <0.2           |                |             |             |             | <0.08        |             |             |
| 114               | <0.2           | <0.2           |                | <0.2           | <0.2           | <0.2           | <0.2           | <0.02       | 0.05        | 0.03        | <0.08        | 0.01        | 0.01        |
| 121               |                |                |                |                |                | <0.2           |                |             |             |             | <0.08        |             |             |
| 9                 | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           |             |             |             | <0.08        |             |             |
| 28                |                |                |                |                |                | <0.2           |                |             |             |             | <0.08        |             |             |
| 123               |                |                |                |                |                | <0.2           | <0.2           | <0.02       | <0.03       | 0.02        | <0.08        | 0.01        | 0.03        |
| 16                |                |                |                |                |                | <0.2           |                |             |             |             | <0.08        |             |             |
| 117               |                |                |                |                |                | <0.2           | <0.2           | 0.01        | <0.03       | 0.02        | <0.08        | 0.01        | <0.01       |
| 26                | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           |                |             |             |             | <0.08        |             |             |
| 29                |                |                | <0.2           | <0.2           | <0.2           |                |                |             |             |             | <0.08        |             |             |
| 30                | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           |                |             |             |             | <0.08        |             |             |
| 402               |                |                |                |                |                | <0.2           | <0.2           | <0.02       | <0.03       | 0.02        | <0.08        | 0.01        | 0.01        |
| 70                | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           | <0.02       | <0.04       | 0.04        | <0.08        | 0.01        | 0.01        |
| 71                | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           | <0.2           | 0.04        | <0.04       | 0.02        | <0.08        | 0.01        | <0.01       |
| <b>Averages</b>   | <b>&lt;0.2</b> | <b>&lt;0.2</b> | <b>&lt;0.2</b> | <b>&lt;0.2</b> | <b>&lt;0.2</b> | <b>&lt;0.2</b> | <b>&lt;0.2</b> | <b>0.02</b> | <b>0.37</b> | <b>0.03</b> | <b>0.028</b> | <b>0.01</b> | <b>0.01</b> |

<sup>1</sup> Order of plots (plots 11 [100 m] to 71 [21 km]) indicates increasing distance from the SHTC.

**Appendix 3-22.** Concentrations of sodium (Na, mg/kg dwt) in red-backed voles captured in the SHTC study area. **Baseline (1986-87):** Mean = 4,700, S.D. = 400. **Pearson's Correlation Coefficient 2024:**  $r(8) = 0.30$ . Moderate positive correlation and significant ( $P = 0.001$ ,  $P < 0.05$ ).

| Plot <sup>1</sup> | 1994        | 1995        | 1996        | 1997        | 1998        | 2004        | 2009        | 2010        | 2011        | 2012        | 2014        | 2019        | 2024        |
|-------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 11                | 4500        | 1700        | 2700        | 4000        | 4600        | 4464        | 5534        | 5878        | 5229        | 5878        | 4520        | 4889        | 4200        |
| 103               | 3600        | 7000        | 2700        | 5500        | 3800        | 4269        |             |             |             |             | 4960        |             |             |
| 109               | 3800        | 6500        | 3300        | 4200        | 5000        | 4321        | 6030        | 5573        | 5115        | 4886        | 4490        | 4621        | 4920        |
| 4                 | 3800        | 1500        |             | 4900        | 4500        | 4962        | 4809        | 5687        | 5267        | 4428        | 4660        | 4524        | 4890        |
| 110               |             |             |             |             |             | 5538        | 5115        | 5725        | 5229        | 4886        | 4500        | 4841        | 4640        |
| 104               |             |             |             |             |             |             |             |             |             |             | 4370        |             |             |
| 102               |             |             |             |             |             |             |             |             |             |             | 4500        |             |             |
| 1                 | 3800        | 1500        | 2800        | 5300        | 2300        | 4731        |             |             |             |             | 4250        |             |             |
| 27                | 3900        | 6700        | 3900        | 4200        | 4300        | 5040        |             |             |             |             | 4280        |             |             |
| 8                 | 4800        | 5200        | 2900        | 4800        | 4300        | 4609        |             |             |             |             | 4680        |             |             |
| 15                |             |             | 2500        | 3600        | 4900        | 4577        |             |             |             |             | 4510        |             |             |
| 114               | 4700        | 7400        |             | 3650        | 4100        | 5214        | 5802        | 5954        | 6679        | 5076        | 4370        | 4394        | 4650        |
| 121               |             |             |             |             |             | 4739        |             |             |             |             | 4520        |             |             |
| 9                 | 3800        | 1600        | 3100        | 4200        | 4700        | 5435        | 5840        |             |             |             | 4350        |             |             |
| 28                |             |             |             |             |             | 3256        |             |             |             |             | 5010        |             |             |
| 123               |             |             |             |             |             | 5407        | 4847        | 5496        | 5840        | 4733        | 4030        | 4983        | 4980        |
| 16                |             |             |             |             |             | 4369        |             |             |             |             | 4460        |             |             |
| 117               |             |             |             |             |             | 4793        | 5534        | 6069        | 6069        | 5267        | 4620        | 4838        | 4630        |
| 26                | 3700        | 5400        | 4100        | 4400        | 4500        | 4815        |             |             |             |             | 4710        |             |             |
| 29                |             |             | 4100        | 4100        | 4700        |             |             |             |             |             | 4460        |             |             |
| 30                | 4600        | 5700        | 3600        | 4400        | 4800        | 4583        |             |             |             |             | 4390        |             |             |
| 402               |             |             |             |             |             | 4370        | 4924        | 5496        | 5687        | 4962        | 4030        | 5000        | 4320        |
| 70                | 5200        | 6400        | 2400        | 4400        | 4500        | 4769        | 5763        | 5763        | 6374        | 4924        | 4730        | 5069        | 4580        |
| 71                | 4100        | 6600        | 3200        | 4300        | 4100        | 4633        | 5649        | 6641        | 5344        | 4618        | 4450        | 5055        | 5110        |
| <b>Averages</b>   | <b>4207</b> | <b>4753</b> | <b>3144</b> | <b>3124</b> | <b>4335</b> | <b>4704</b> | <b>5441</b> | <b>5828</b> | <b>5683</b> | <b>4966</b> | <b>4494</b> | <b>4821</b> | <b>4692</b> |

<sup>1</sup> Order of plots (plots 11 [100 m] to 71 [21 km]) indicates increasing distance from the SHTC.



**Appendix 3-23.** Concentrations of tin (Sn, mg/kg dwt) in red-backed voles captured in the SHTC study area. **Baseline (1986-87):** Mean = <2, S.D. = 0.0. **Pearson's Correlation Coefficient 2024:**  $r(8) = -0.34$ . Weak negative correlation but not significant ( $P = 0.08$ ,  $P > 0.05$ ).

| Plot <sup>1</sup> | 1994         | 1995         | 1996         | 1997         | 1998         | 2004         | 2009       | 2010       | 2011       | 2012       | 2014       | 2019       | 2024        |
|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|------------|------------|------------|------------|------------|------------|-------------|
| 11                | <2           | <2           | <2           | <2           | <2           | <2           | 0.8        | 0.3        | 0.7        | 0.3        | 0.36       | 0.12       | 0.26+       |
| 103               | <2           | <2           | <2           | <2           | <2           | <2           |            |            |            |            | 1.89       |            |             |
| 109               | <2           | <2           | <2           | <2           | <2           | <2           | 0.8        | 0.7        | 0.6        | 0.7        | 0.853      | 0.19       | 0.11        |
| 4                 | <2           | <2           |              | <2           | <2           | <2           | 0.8        | 0.4        | 0.6        | 0.2        | 1.32       | 0.14       | 0.33        |
| 110               |              |              |              |              |              | <2           | 0.8        | 0.4        | 0.5        | 0.5        | 0.966      | 0.04       | 0.26        |
| 104               |              |              |              |              |              |              |            |            |            |            | 0.438      |            |             |
| 102               |              |              |              |              |              |              |            |            |            |            | 0.856      |            |             |
| 1                 | <2           | <2           | <2           | <2           | <2           | <2           |            |            |            |            | 0.948      |            |             |
| 27                | <2           | <2           | <2           | <2           | <2           | <2           |            |            |            |            | 2.62       |            |             |
| 8                 | <2           | <2           | <2           | <2           | <2           | <2           |            |            |            |            | 1.66       |            |             |
| 15                |              |              |              | <2           | <2           | <2           |            |            |            |            | 1.37       |            |             |
| 114               | <2           | <2           |              | <2           | <2           | <2           | 0.8        | 0.6        | 0.7        | 0.3        | 0.619      | 0.14       | 0.24        |
| 121               |              |              |              |              |              | <2           |            |            |            |            | 0.512      |            |             |
| 9                 | <2           | <2           | <2           | <2           | <2           | <2           | 0.8        |            |            |            | 1.45       |            |             |
| 28                |              |              |              |              |              | <2           |            |            |            |            | 0.543      |            |             |
| 123               |              |              |              |              |              | <2           | 0.8        | 0.4        | 0.7        | 0.6        | 0.462      | 0.03       | 0.27        |
| 16                |              |              |              |              |              | <2           |            |            |            |            | 0.656      |            |             |
| 117               |              |              |              |              |              | <2           | 0.8        | 0.5        | 0.4        | 1.3        | 0.608      | 0.11       | 0.21        |
| 26                | <2           | <2           | <2           | <2           | <2           | <2           |            |            |            |            | 0.589      |            |             |
| 29                |              |              | <2           | <2           | <2           |              |            |            |            |            | 1.39       |            |             |
| 30                | <2           | <2           | <2           | <2           | <2           | <2           |            |            |            |            | 0.729      |            |             |
| 402               |              |              |              |              |              | <2           | 1.1        | 0.5        | 0.4        | 0.3        | 0.599      | 0.04       | 0.11        |
| 70                | <2           | <2           | <2           | <2           | <2           | <2           | 0.4        | 0.3        | 0.3        | 0.4        | 1.21       | 0.08       | 0.24        |
| 71                | <2           | <2           | <2           | <2           | <2           | <2           | 0.8        | 0.4        | 0.7        | 0.9        | 0.687      | 0.11       | 0.17        |
| <b>Averages</b>   | <b>&lt;2</b> | <b>&lt;2</b> | <b>&lt;2</b> | <b>&lt;2</b> | <b>&lt;2</b> | <b>&lt;2</b> | <b>0.8</b> | <b>0.5</b> | <b>0.6</b> | <b>0.6</b> | <b>1.0</b> | <b>0.1</b> | <b>0.22</b> |

<sup>1</sup> Order of plots (plots 11 [100 m] to 71 [21 km]) indicates increasing distance from the SHTC.

**Appendix 3-24.** Concentrations of titanium (Ti, mg/kg dwt) in red-backed voles captured in the SHTC study area. **Baseline (1986-87):** Mean = 1.0, S.D. = 0.37. **Pearson's Correlation Coefficients 2019 and 2024:** Element was not included in 2019 and 2024 analyses.

| Plot <sup>1</sup> | 1994       | 1995       | 1996       | 1997     | 1998       | 2004       | 2009       | 2010       | 2011       | 2012       | 2014       | 2019 | 2024 |
|-------------------|------------|------------|------------|----------|------------|------------|------------|------------|------------|------------|------------|------|------|
| 11                | 2          | 2          | 2.7        | 2.7      | 1.8        | 3.8        | 1.5        | 1.9        | 1.4        | 2.1        | 3.6        |      |      |
| 103               | 0.7        | 3.9        | 7          | 7        | 3.4        | 8.8        |            |            |            |            | 8.38       |      |      |
| 109               | 0.6        | 1.6        | 1.8        | 1.8      | 2.3        | 2.4        | 0.8        | 2.3        | 1.8        | 3.2        | 3.29       |      |      |
| 4                 | 1.9        | 2.6        |            | 2.4      | 2.5        | 7.5        | 0.8        | <0.02      | 2.1        | 3          | 5.47       |      |      |
| 110               |            |            |            |          |            | 5.1        | 0.8        | 2.2        | 1.3        | 2.1        | 3.25       |      |      |
| 104               |            |            |            |          |            |            |            |            |            |            | 3.35       |      |      |
| 102               |            |            |            |          |            |            |            |            |            |            | 2.9        |      |      |
| 1                 | <0.2       | 4.5        | 3.5        | 3.5      | 1.8        | 4.1        |            |            |            |            | 5.56       |      |      |
| 27                | <0.2       | 3.3        | 2.9        | 2.9      | 1.5        | 8.9        |            |            |            |            | 3          |      |      |
| 8                 | 4.5        | 3.4        | 6.6        | 6.6      | 0.7        | 3          |            |            |            |            | 5.52       |      |      |
| 15                |            |            | 1.1        | 1.1      | 1.8        | 2.2        |            |            |            |            | 2.43       |      |      |
| 114               | 3.5        | 2.9        |            |          | 1.2        | 4.2        | 1.1        | 2.4        | 0.8        | 2.4        | 2.13       |      |      |
| 121               |            |            |            |          |            | 1.4        |            |            |            |            | 3.16       |      |      |
| 9                 | <0.2       | 1.2        | 4.7        | 4.7      | 2.3        | 3.5        | 0.4        |            |            |            | 2.7        |      |      |
| 28                |            |            |            |          |            | 4.6        |            |            |            |            | 2.42       |      |      |
| 123               |            |            |            |          |            | 19.3       | 1.1        | 2.7        | 2.1        | 2.5        | 3.31       |      |      |
| 16                |            |            |            |          |            | 2.2        |            |            |            |            | 2.2        |      |      |
| 117               |            |            |            |          |            | 3.2        | 5.7        | <0.02      | 1.4        | 2.2        | 1.9        |      |      |
| 26                | 1          | 2          | 5.7        | 5.7      | 1.7        | 2.7        |            |            |            |            | 2.35       |      |      |
| 29                |            |            | 1.9        | 1.9      | 1.9        |            |            |            |            |            | 2.74       |      |      |
| 30                | 0.3        | 4          | 5.3        | 5.3      | 0.8        | 6.1        |            |            |            |            | 2.12       |      |      |
| 402               |            |            |            |          |            | 2.6        | 1.1        | 3.9        | 1.2        | 2.6        | 2.93       |      |      |
| 70                | 0.8        | 8.5        | 9.7        | 9.7      | 6.4        | 12         | 2.3        | 5.5        | 3.9        | 3.5        | 5.16       |      |      |
| 71                | 0.7        | 1.7        | 1.6        | 1.6      | 0.7        | 1.7        | 0.8        | 1.3        | 3.7        | 10.1       | 2.95       |      |      |
| <b>Averages</b>   | <b>1.1</b> | <b>3.2</b> | <b>4.1</b> | <b>4</b> | <b>2.1</b> | <b>5.2</b> | <b>1.5</b> | <b>2.2</b> | <b>2.0</b> | <b>3.4</b> | <b>3.5</b> |      |      |

<sup>1</sup> Order of plots (plots 11 [100 m] to 71 [21 km]) indicates increasing distance from the SHTC.

**Appendix 3-25.** Concentrations of vanadium (V, mg/kg dwt) in red-backed voles captured in the SHTC study area. **Baseline (1986-87):** Mean = 2.1, S.D. = 0.2. **Pearson's Correlation Coefficient 2024:**  $r(8) = -0.17$ . Weak negative correlation but not significant ( $P = 0.07$ ,  $P > 0.05$ ).

| Plot <sup>1</sup> | 1994         | 1995     | 1996         | 1997         | 1998         | 2004         | 2009       | 2010       | 2011       | 2012       | 2014        | 2019        | 2024        |
|-------------------|--------------|----------|--------------|--------------|--------------|--------------|------------|------------|------------|------------|-------------|-------------|-------------|
| 11                | <2           | 3        | <2           | <2           | <2           | <2           | <0.4       | 0.2        | 0.2        | 0.3        | <0.5        | 0.2         | 0.10        |
| 103               | <2           | 4        | <2           | <2           | <2           | <2           |            |            |            |            | <0.5        |             |             |
| 109               | <2           | 3        | <2           | <2           | <2           | <2           | <0.4       | 0.2        | 0.2        | 0.2        | <0.5        | 0.2         | <0.10       |
| 4                 | <2           | 2        | -            | <2           | <2           | <2           | 0.5        | 0.3        | 0.2        | 0.3        | <0.5        | 0.2         | 0.24        |
| 110               |              |          |              |              |              | <2           | <0.4       | 0.2        | 0.1        | 0.2        | <0.5        | 0.1         | 0.11        |
| 104               |              |          |              |              |              |              |            |            |            |            | <0.5        |             |             |
| 102               |              |          |              |              |              |              |            |            |            |            | <0.5        |             |             |
| 1                 | <2           | <2       | <2           | <2           | <2           | <2           |            |            |            |            | <0.5        |             |             |
| 27                | <2           | 3        | <2           | <2           | <2           | <2           |            |            |            |            | <0.5        |             |             |
| 8                 | <2           | 3        | <2           | <2           | <2           | <2           |            |            |            |            | 0.69        |             |             |
| 15                |              |          |              | <2           | <2           | <2           |            |            |            |            | <0.5        |             |             |
| 114               | <2           | 4        |              | <2           | <2           | <2           | <0.4       | 0.2        | 0.1        | 0.2        | <0.5        | 0.1         | <0.10       |
| 121               |              |          |              |              |              | <2           |            |            |            |            | <0.5        |             |             |
| 9                 | <2           | 3        | <2           | <2           | <2           | <2           | <0.4       |            |            |            | <0.5        |             |             |
| 28                |              |          |              |              |              | <2           |            |            |            |            | <0.5        |             |             |
| 123               |              |          |              |              |              | <2           | <0.4       | 0.2        | 0.2        | 0.2        | <0.5        | 0.1         | 0.18        |
| 16                |              |          |              |              |              | <2           |            |            |            |            | <0.5        |             |             |
| 117               |              |          |              |              |              | <2           | <0.4       | 0.2        | 0.2        | 0.2        | <0.5        | 0.2         | <0.10       |
| 26                | <2           | 3        | <2           | <2           | <2           | <2           |            |            |            |            | <0.5        |             |             |
| 29                |              |          | <2           | <2           | <2           |              |            |            |            |            | <0.5        |             |             |
| 30                | <2           | 3        | <2           | <2           | <2           | <2           |            |            |            |            | <0.5        |             |             |
| 402               |              |          |              |              |              | <2           | <0.4       | 0.2        | 0.1        | 0.2        | <0.5        | 0.2         | <0.10       |
| 70                | <2           | 3        | <2           | <2           | <2           | <2           | 0.5        | 0.6        | 0.4        | 0.4        | <0.5        | 0.4         | 0.17        |
| 71                | <2           | 4        | <2           | <2           | <2           | <2           | <0.4       | 0.1        | 0.4        | 0.8        | <0.5        | 0.1         | <0.10       |
| <b>Averages</b>   | <b>&lt;2</b> | <b>3</b> | <b>&lt;2</b> | <b>&lt;2</b> | <b>&lt;2</b> | <b>&lt;2</b> | <b>0.4</b> | <b>0.2</b> | <b>0.2</b> | <b>0.3</b> | <b>0.03</b> | <b>0.18</b> | <b>0.11</b> |

<sup>1</sup> Order of plots (plots 11 [100 m] to 71 [21 km]) indicates increasing distance from the SHTC.

**Appendix 3-26.** Concentrations of zinc (Zn, mg/kg dwt) in red-backed voles captured in the SHTC study area. **Baseline (1986-87):** Mean = 104, S.D. = 9.2. **Pearson's Correlation Coefficient 2019:**  $r(8) = -0.38$ . Weak negative correlation and significant ( $P = 0.001$ ,  $P < 0.05$ ).

| Plot <sup>1</sup> | 1994       | 1995       | 1996      | 1997       | 1998      | 2004      | 2009       | 2010       | 2011       | 2012       | 2014      | 2019       | 2024        |
|-------------------|------------|------------|-----------|------------|-----------|-----------|------------|------------|------------|------------|-----------|------------|-------------|
| 11                | 92         | 120        | 84        | 93         | 94        | 90        | 121        | 129        | 115        | 114        | 99.7      | 114.1      | 89.3        |
| 103               | 87         | 230        | 85        | 120        | 73        | 73        |            |            |            |            | 122       |            |             |
| 109               | 89         | 110        | 89        | 81         | 93        | 108       | 126        | 128        | 103        | 107        | 94        | 112.8      | 97.1        |
| 4                 | 150        | 100        |           | 100        | 150       | 117       | 118        | 116        | 100        | 105        | 103       | 99.7       | 88.2        |
| 110               |            |            |           |            |           | 112       | 115        | 121        | 105        | 115        | 101       | 113.1      | 104         |
| 104               |            |            |           |            |           |           |            |            |            |            | 88.4      |            |             |
| 102               |            |            |           |            |           |           |            |            |            |            | 102       |            |             |
| 1                 | 100        | 290        | 92        | 160        | 85        | 113       |            |            |            |            | 93.7      |            |             |
| 27                | 97         | 160        | 83        | 110        | 89        | 78        |            |            |            |            | 98.1      |            |             |
| 8                 | 120        | 210        | 97        | 140        | 79        | 118       |            |            |            |            | 90.6      |            |             |
| 15                |            |            | 85        | 98         | 97        | 70        |            |            |            |            | 100       |            |             |
| 114               | 600        | 210        |           | 94         | 94        | 84        | 126        | 113        | 116        | 118        | 85.1      | 101.0      | 90.2        |
| 121               |            |            |           |            |           | 109       |            |            |            |            | 88.5      |            |             |
| 9                 | 94         | 110        | 84        | 110        | 110       | 87        | 135        |            |            |            | 84.7      |            |             |
| 28                |            |            |           |            |           | 61        |            |            |            |            | 104       |            |             |
| 123               |            |            |           |            |           | 107       | 123        | 137        | 110        | 107        | 78.5      | 119.0      | 98.7        |
| 16                |            |            |           |            |           | 72        |            |            |            |            | 90.7      |            |             |
| 117               |            |            |           |            |           | 86        | 119        | 139        | 114        | 122        | 87.5      | 116.2      | 86.4        |
| 26                | 88         | 150        | 100       | 90         | 92        | 80        |            |            |            |            | 89.4      |            |             |
| 29                |            |            | 110       | 97         | 96        |           |            |            |            |            | 87.9      |            |             |
| 30                | 160        | 110        | 150       | 92         | 87        | 76        |            |            |            |            | 90.1      |            |             |
| 402               |            |            |           |            |           | 84        | 117        | 128        | 114        | 105        | 87.6      | 107.6      | 86.1        |
| 70                | 160        | 200        | 87        | 98         | 100       | 88        | 129        | 129        | 130        | 119        | 93.2      | 116.7      | 81.7        |
| 71                | 95         | 120        | 100       | 10         | 89        | 83        | 124        | 141        | 92         | 115        | 89        | 110.3      | 90          |
| <b>Averages</b>   | <b>157</b> | <b>155</b> | <b>94</b> | <b>104</b> | <b>95</b> | <b>90</b> | <b>123</b> | <b>128</b> | <b>110</b> | <b>113</b> | <b>94</b> | <b>111</b> | <b>91.2</b> |

<sup>1</sup> Order of plots (plots 11 [100 m] to 71 [21 km]) indicates increasing distance from the SHTC.

**Appendix 3-27.** Concentrations of strontium (Sr, mg/kg dwt) in red-backed voles captured in the SHTC study area. **Pearson's Correlation Coefficient 2024:**  $r(8) = 0.53$ . Moderate positive correlation and significant ( $P = 0.001$ ,  $P < 0.05$ ).

| Plot <sup>1</sup> | 2009        | 2010      | 2011        | 2012      | 2014        | 2019        | 2024        |
|-------------------|-------------|-----------|-------------|-----------|-------------|-------------|-------------|
| 11                | 12.5        | 20        | 19.9        | 13.3      | 14.1        | 17.3        | 7.2         |
| 109               | 22.5        | 11.3      | 25.6        | 7.3       | 15.9        | 17.9        | 20.9        |
| 4                 | 21.6        | 12.5      | 14.4        | 11        | 14.4        | 13.4        | 9.2         |
| 110               | 20          | 12.1      | 21          | 10.8      | 15.9        | 17.2        | 15.1        |
| 114               | 17.4        | 11.7      | 29.2        | 16.2      | 14.1        | 15.8        | 10.1        |
| 123               | 14.6        | 19        | 16.6        | 16.9      | 13.3        | 25.3        | 10.2        |
| 117               | 15.3        | 19.7      | 28.6        | 18.1      | 15.9        | 20.3        | 13.5        |
| 402               | 25          | 33.1      | 31          | 22.2      | 25.9        | 30.6        | 17.2        |
| 70                | 16.7        | 13.5      | 31.9        | 12.9      | 15.2        | 25.4        | 13.2        |
| 71                | 15.8        | 27.1      | 12.6        | 31.9      | 22.2        | 23.7        | 20.9        |
| <b>Averages</b>   | <b>18.4</b> | <b>18</b> | <b>23.1</b> | <b>16</b> | <b>16.7</b> | <b>20.7</b> | <b>13.8</b> |

<sup>1</sup> Order of plots (plots 11 [100 m] to 71 [21 km]) indicates increasing distance from the SHTC.

**Appendix 3-28.** Concentrations of thallium (Tl, mg/kg dwt) in red-backed voles captured in the SHTC study area. **Pearson's Correlation Coefficient 2024:**  $r(8) = -0.16$ . Weak negative correlation but not significant ( $P = 0.07$ ,  $P > 0.05$ ).

| Plot <sup>1</sup> | 2009            | 2010            | 2011            | 2012            | 2014            | 2019         | 2024         |
|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|--------------|
| 11                | <0.04           | <0.02           | <0.03           | <0.02           | <0.03           | 0.004        | 0.003        |
| 109               | <0.04           | <0.02           | <0.03           | <0.02           | <0.03           | 0.005        | 0.003        |
| 4                 | <0.04           | <0.02           | <0.03           | <0.02           | <0.03           | 0.008        | 0.006        |
| 110               | <0.04           | <0.02           | <0.04           | <0.02           | <0.03           | 0.004        | 0.004        |
| 114               | <0.04           | <0.02           | <0.03           | <0.02           | <0.03           | 0.005        | 0.004        |
| 123               | <0.04           | <0.02           | <0.03           | <0.02           | <0.03           | 0.006        | 0.004        |
| 117               | <0.04           | <0.02           | <0.03           | <0.02           | <0.03           | 0.005        | <0.002       |
| 402               | <0.04           | <0.02           | <0.03           | <0.02           | <0.03           | 0.003        | <0.002       |
| 70                | <0.04           | <0.02           | <0.04           | <0.02           | <0.03           | 0.007        | 0.005        |
| 71                | <0.04           | <0.02           | <0.04           | <0.02           | <0.03           | 0.002        | 0.003        |
| <b>Averages</b>   | <b>&lt;0.04</b> | <b>&lt;0.02</b> | <b>&lt;0.03</b> | <b>&lt;0.02</b> | <b>&lt;0.03</b> | <b>0.005</b> | <b>0.003</b> |

<sup>1</sup> Order of plots (plots 11 [100 m] to 71 [21 km]) indicates increasing distance from the SHTC.

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**Appendix 4.** Results of chemical analyses for PAHs (mg/kg) in red-backed voles in the SHTC study area, June/February 2000, February 2002, February 2003, June 2019, and June 2024.

| Target Analytes                 | Plot <sup>1</sup>       |                 |             |     |              |     |     |              |             |       |
|---------------------------------|-------------------------|-----------------|-------------|-----|--------------|-----|-----|--------------|-------------|-------|
|                                 | 11                      | 109             | 4           | 110 | 114          | 123 | 117 | 402          | 70          | 71    |
| <b>February 2000:</b>           |                         |                 |             |     |              |     |     |              |             |       |
| Acenaphthene                    | <0.01                   | -. <sup>2</sup> | <0.01       | -   | <0.01        | -   | -   | <0.01        | <0.01       | -     |
| Acenaphthylene                  | <0.01                   | -               | <0.01       | -   | <0.01        | -   | -   | <0.02        | <0.01       | -     |
| Benzo(a)pyrene                  | <0.01                   | -               | <0.01       | -   | <0.01        | -   | -   | <0.01        | <0.01       | -     |
| Benzo(b)fluoranthene            | <0.02                   | -               | <0.02       | -   | <0.02        | -   | -   | <0.02        | <0.02       | -     |
| Benzo(ghi)perylene              | <0.01                   | -               | <0.01       | -   | <0.01        | -   | -   | <0.01        | <0.01       | -     |
| B(a)A/Chrysene/B(c)P            | <0.01                   | -               | <0.01       | -   | <0.01        | -   | -   | <0.01        | <0.01       | -     |
| Benzo(b/j/k)fluoranthene        | <0.01                   | -               | <0.01       | -   | <0.01        | -   | -   | <0.01        | <0.01       | -     |
| 7,12-Dimethylbenz(a)anthracene  | <0.01                   | -               | <0.01       | -   | <0.01        | -   | -   | <0.01        | <0.01       | -     |
| Dibenzo(a,h)anthracene          | <0.01                   | -               | <0.01       | -   | <0.01        | -   | -   | <0.01        | <0.01       | -     |
| Fluoranthene                    | <0.01                   | -               | <0.01       | -   | <0.01        | -   | -   | <0.01        | <0.01       | -     |
| <b>Fluorene</b>                 | <b>0.02<sup>3</sup></b> | -               | <b>0.02</b> | -   | <b>0.01</b>  | -   | -   | <b>0.01</b>  | <b>0.01</b> | -     |
| Indeno(1,2,3-cd)pyrene          | <0.01                   | -               | <0.01       | -   | <0.01        | -   | -   | <0.01        | <0.01       | -     |
| 3-Methylcholanthrene            | <0.01                   | -               | <0.01       | -   | <0.01        | -   | -   | <0.01        | <0.01       | -     |
| <b>Phenanthrene/anthracene</b>  | <b>0.01</b>             | -               | <b>0.03</b> | -   | <0.01        | -   | -   | <b>0.01</b>  | <b>0.01</b> | -     |
| Napthalene                      | <0.02                   | -               | <0.02       | -   | <0.02        | -   | -   | <0.02        | <0.02       | -     |
| Pyrene                          | <0.01                   | -               | <0.01       | -   | <0.01        | -   | -   | <0.01        | <0.01       | -     |
| <b>2000 February PAH Totals</b> | <b>0.108</b>            | -               | <b>0.13</b> | -   | <b>0.085</b> | -   | -   | <b>0.105</b> | <b>0.1</b>  | -     |
| <b>June 2000:</b>               |                         |                 |             |     |              |     |     |              |             |       |
| Acenaphthene                    | -                       | -               | -           | -   | -            | -   | -   | -            | <0.01       | <0.01 |
| Acenaphthylene                  | -                       | -               | -           | -   | -            | -   | -   | -            | <0.01       | <0.01 |
| Benzo(a)anthracene/Chrysene     | -                       | -               | -           | -   | -            | -   | -   | -            | <0.01       | <0.01 |
| Benzo(a)pyrene                  | -                       | -               | -           | -   | -            | -   | -   | -            | <0.01       | <0.01 |
| Benzo(b)fluoranthene            | -                       | -               | -           | -   | -            | -   | -   | -            | <0.01       | <0.01 |
| Benzo(ghi)perylene              | -                       | -               | -           | -   | -            | -   | -   | -            | <0.01       | <0.01 |

| Target Analytes             | Plot <sup>1</sup> |     |       |     |       |     |     |       |              |             |
|-----------------------------|-------------------|-----|-------|-----|-------|-----|-----|-------|--------------|-------------|
|                             | 11                | 109 | 4     | 110 | 114   | 123 | 117 | 402   | 70           | 71          |
| Dibenzo(a,h)anthracene      | -                 | -   | -     | -   | -     | -   | -   | -     | <0.01        | <0.01       |
| Fluoranthene                | -                 | -   | -     | -   | -     | -   | -   | -     | <0.01        | <0.01       |
| <b>Fluorene</b>             | -                 | -   | -     | -   | -     | -   | -   | -     | <0.01        | <b>0.01</b> |
| Phenanthrene/anthracene     | -                 | -   | -     | -   | -     | -   | -   | -     | <0.01        | <0.01       |
| Napthalene                  | -                 | -   | -     | -   | -     | -   | -   | -     | <0.01        | <0.01       |
| Methyl napthalene           | -                 | -   | -     | -   | -     | -   | -   | -     | <0.01        | <0.01       |
| Pyrene                      | -                 | -   | -     | -   | -     | -   | -   | -     | <0.01        | <0.01       |
| <b>2000 June PAH Totals</b> | -                 | -   | -     | -   | -     | -   | -   | -     | <b>0.065</b> | <b>0.07</b> |
| <b>February 2002:</b>       |                   |     |       |     |       |     |     |       |              |             |
| Acenaphthene                | <0.02             | -   | <0.02 | -   | <0.02 | -   | -   | <0.02 | <0.02        | -           |
| Acenaphthylene              | <0.02             | -   | <0.02 | -   | <0.02 | -   | -   | <0.02 | <0.02        | -           |
| Anthracene                  | <0.02             | -   | <0.02 | -   | <0.02 | -   | -   | <0.02 | <0.02        | -           |
| Benzo(a)anthracene          | <0.02             | -   | <0.02 | -   | <0.02 | -   | -   | <0.02 | <0.02        | -           |
| Benzo(a)pyrene              | <0.02             | -   | <0.02 | -   | <0.02 | -   | -   | <0.02 | <0.02        | -           |
| Benzo(b)fluoranthene        | <0.02             | -   | <0.02 | -   | <0.02 | -   | -   | <0.02 | <0.02        | -           |
| Benzo(k)fluoranthene        | <0.02             | -   | <0.02 | -   | <0.02 | -   | -   | <0.02 | <0.02        | -           |
| Benzo(ghi)perylene          | <0.02             | -   | <0.02 | -   | <0.02 | -   | -   | <0.02 | <0.02        | -           |
| Biphenyl                    | <0.04             | -   | <0.04 | -   | <0.04 | -   | -   | <0.04 | <0.04        | -           |
| C2 sub'd B(a)A/chrysene     | <0.04             | -   | <0.04 | -   | <0.04 | -   | -   | <0.04 | <0.04        | -           |
| C2 sub'd B(b&k)F/B(a)P      | <0.04             | -   | <0.04 | -   | <0.04 | -   | -   | <0.04 | <0.04        | -           |
| C2 sub'd biphenyl           | <0.04             | -   | <0.04 | -   | <0.04 | -   | -   | <0.04 | <0.04        | -           |
| C2 sub'd dibenzothiophene   | <0.04             | -   | <0.04 | -   | <0.04 | -   | -   | <0.04 | <0.04        | -           |
| C2 sub'd fluorene           | <0.04             | -   | <0.04 | -   | <0.04 | -   | -   | <0.04 | <0.04        | -           |
| C2 sub'd napthalene         | <0.04             | -   | <0.04 | -   | <0.04 | -   | -   | <0.04 | <0.04        | -           |
| C2 sub'd phenanthrene/anth. | <0.04             | -   | <0.04 | -   | <0.04 | -   | -   | <0.04 | <0.04        | -           |
| C3 sub'd dibenzothiophene   | <0.04             | -   | <0.04 | -   | <0.04 | -   | -   | <0.04 | <0.04        | -           |
| C3 sub'd napthalene         | <0.04             | -   | <0.04 | -   | <0.04 | -   | -   | <0.04 | <0.04        | -           |
| C3 sub'd phenanthrene/anth. | <0.04             | -   | <0.04 | -   | <0.04 | -   | -   | <0.04 | <0.04        | -           |



| Target Analytes                 | Plot <sup>1</sup> |          |             |          |             |          |          |             |             |    |
|---------------------------------|-------------------|----------|-------------|----------|-------------|----------|----------|-------------|-------------|----|
|                                 | 11                | 109      | 4           | 110      | 114         | 123      | 117      | 402         | 70          | 71 |
| C4 sub'd dibenzothiophene       | <0.04             | -        | <0.04       | -        | <0.04       | -        | -        | <0.04       | <0.04       | -  |
| C4 sub'd naphthalene            | <0.04             | -        | <0.04       | -        | <0.04       | -        | -        | <0.04       | <0.04       | -  |
| C4 sub'd phenanthrene/anth.     | <0.04             | -        | <0.04       | -        | <0.04       | -        | -        | <0.04       | <0.04       | -  |
| Chrysene                        | <0.02             | -        | <0.02       | -        | <0.02       | -        | -        | <0.02       | <0.02       | -  |
| Dibenzo(a,h)anthracene          | <0.02             | -        | <0.02       | -        | <0.02       | -        | -        | <0.02       | <0.02       | -  |
| Dibenzothiophene                | <0.02             | -        | <0.02       | -        | <0.02       | -        | -        | <0.02       | <0.02       | -  |
| Fluoranthene                    | <0.02             | -        | <0.02       | -        | <0.02       | -        | -        | <0.02       | <0.02       | -  |
| Fluorene                        | <0.02             | -        | <0.02       | -        | <0.02       | -        | -        | <0.02       | <0.02       | -  |
| Indeno(c,d-123)pyrene           | <0.02             | -        | <0.02       | -        | <0.02       | -        | -        | <0.02       | <0.02       | -  |
| Methyl B(a)Achrysene            | <0.04             | -        | <0.04       | -        | <0.04       | -        | -        | <0.04       | <0.04       | -  |
| Methyl B(b&k)F/B(a)P            | <0.04             | -        | <0.04       | -        | <0.04       | -        | -        | <0.04       | <0.04       | -  |
| Methyl acenaphthene             | <0.04             | -        | <0.04       | -        | <0.04       | -        | -        | <0.04       | <0.04       | -  |
| Methyl biphenyl                 | <0.04             | -        | <0.04       | -        | <0.04       | -        | -        | <0.04       | <0.04       | -  |
| Methyl dibenzothiophene         | <0.04             | -        | <0.04       | -        | <0.04       | -        | -        | <0.04       | <0.04       | -  |
| Methyl fluoranthene/pyrene      | <0.04             | -        | <0.04       | -        | <0.04       | -        | -        | <0.04       | <0.04       | -  |
| Methyl fluorene                 | <0.04             | -        | <0.04       | -        | <0.04       | -        | -        | <0.04       | <0.04       | -  |
| Methyl naphthalene              | <0.02             | -        | <0.02       | -        | <0.02       | -        | -        | <0.02       | <0.02       | -  |
| Methyl phenanthrene/anthracene  | <0.04             | -        | <0.04       | -        | <0.04       | -        | -        | <0.04       | <0.04       | -  |
| Napthalene                      | <0.02             | -        | <0.02       | -        | <0.02       | -        | -        | <0.02       | <0.02       | -  |
| Phenanthrene                    | <0.02             | -        | <0.02       | -        | <0.02       | -        | -        | <0.02       | <0.02       | -  |
| Pyrene                          | <0.02             | -        | <0.02       | -        | <0.02       | -        | -        | <0.02       | <0.02       | -  |
| <b>2002 February PAH Totals</b> | <b>0.62</b>       | <b>-</b> | <b>0.62</b> | <b>-</b> | <b>0.62</b> | <b>-</b> | <b>-</b> | <b>0.62</b> | <b>0.62</b> |    |
| <b>February 2003:</b>           |                   |          |             |          |             |          |          |             |             |    |
| Acenaphthene                    | <0.02             | -        | <0.02       | -        | <0.02       | -        | -        | <0.02       | <0.02       | -  |
| Acenaphthylene                  | <0.02             | -        | <0.02       | -        | <0.02       | -        | -        | <0.02       | <0.02       | -  |
| Anthracene                      | <0.02             | -        | <0.02       | -        | <0.02       | -        | -        | <0.02       | <0.02       | -  |
| Benzo(a)anthracene              | <0.02             | -        | <0.02       | -        | <0.02       | -        | -        | <0.02       | <0.02       | -  |
| Benzo(a)pyrene                  | <0.02             | -        | <0.02       | -        | <0.02       | -        | -        | <0.02       | <0.02       | -  |

| Target Analytes             | Plot <sup>1</sup> |     |       |     |       |     |     |       |       |    |
|-----------------------------|-------------------|-----|-------|-----|-------|-----|-----|-------|-------|----|
|                             | 11                | 109 | 4     | 110 | 114   | 123 | 117 | 402   | 70    | 71 |
| Benzo(b)fluoranthene        | <0.02             | -   | <0.02 | -   | <0.02 | -   | -   | <0.02 | <0.02 | -  |
| Benzo(k)fluoranthene        | <0.02             | -   | <0.02 | -   | <0.02 | -   | -   | <0.02 | <0.02 | -  |
| Benzo(ghi)perylene          | <0.02             | -   | <0.02 | -   | <0.02 | -   | -   | <0.02 | <0.02 | -  |
| Biphenyl                    | <0.04             | -   | <0.04 | -   | <0.04 | -   | -   | <0.04 | <0.04 | -  |
| C2 sub'd B(a)A/chrysene     | <0.04             | -   | <0.04 | -   | <0.04 | -   | -   | <0.04 | <0.04 | -  |
| C2 sub'd B(b&k)F/B(a)P      | <0.04             | -   | <0.04 | -   | <0.04 | -   | -   | <0.04 | <0.04 | -  |
| C2 sub'd biphenyl           | <0.04             | -   | <0.04 | -   | <0.04 | -   | -   | <0.04 | <0.04 | -  |
| C2 sub'd dibenzothiophene   | <0.04             | -   | <0.04 | -   | <0.04 | -   | -   | <0.04 | <0.04 | -  |
| C2 sub'd fluorene           | <0.04             | -   | <0.04 | -   | <0.04 | -   | -   | <0.04 | <0.04 | -  |
| C2 sub'd naphthalene        | <0.04             | -   | <0.04 | -   | <0.04 | -   | -   | <0.04 | <0.04 | -  |
| C2 sub'd phenanthrene/anth. | <0.04             | -   | <0.04 | -   | <0.04 | -   | -   | <0.04 | <0.04 | -  |
| C3 sub'd dibenzothiophene   | <0.04             | -   | <0.04 | -   | <0.04 | -   | -   | <0.04 | <0.04 | -  |
| C3 sub'd naphthalene        | <0.04             | -   | <0.04 | -   | <0.04 | -   | -   | <0.04 | <0.04 | -  |
| C3 sub'd phenanthrene/anth. | <0.04             | -   | <0.04 | -   | <0.04 | -   | -   | <0.04 | <0.04 | -  |
| C4 sub'd dibenzothiophene   | <0.04             | -   | <0.04 | -   | <0.04 | -   | -   | <0.04 | <0.04 | -  |
| C4 sub'd naphthalene        | <0.04             | -   | <0.04 | -   | <0.04 | -   | -   | <0.04 | <0.04 | -  |
| C4 sub'd phenanthrene/anth. | <0.04             | -   | <0.04 | -   | <0.04 | -   | -   | <0.04 | <0.04 | -  |
| Chrysene                    | <0.02             | -   | <0.02 | -   | <0.02 | -   | -   | <0.02 | <0.02 | -  |
| Dibenzo(a,h)anthracene      | <0.02             | -   | <0.02 | -   | <0.02 | -   | -   | <0.02 | <0.02 | -  |
| Dibenzothiophene            | <0.02             | -   | <0.02 | -   | <0.02 | -   | -   | <0.02 | <0.02 | -  |
| Fluoranthene                | <0.02             | -   | <0.02 | -   | <0.02 | -   | -   | <0.02 | <0.02 | -  |
| Fluorene                    | <0.02             | -   | <0.02 | -   | <0.02 | -   | -   | <0.02 | <0.02 | -  |
| Indeno(c,d-123)pyrene       | <0.02             | -   | <0.02 | -   | <0.02 | -   | -   | <0.02 | <0.02 | -  |
| Methyl B(a)Achrysene        | <0.04             | -   | <0.04 | -   | <0.04 | -   | -   | <0.04 | <0.04 | -  |
| Methyl B(b&k)F/B(a)P        | <0.04             | -   | <0.04 | -   | <0.04 | -   | -   | <0.04 | <0.04 | -  |
| Methyl acenaphthene         | <0.04             | -   | <0.04 | -   | <0.04 | -   | -   | <0.04 | <0.04 | -  |
| Methyl biphenyl             | <0.04             | -   | <0.04 | -   | <0.04 | -   | -   | <0.04 | <0.04 | -  |
| Methyl dibenzothiophene     | <0.04             | -   | <0.04 | -   | <0.04 | -   | -   | <0.04 | <0.04 | -  |

| Target Analytes                 | Plot <sup>1</sup> |                |                |                |                |                |                |                |               |                |
|---------------------------------|-------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------|
|                                 | 11                | 109            | 4              | 110            | 114            | 123            | 117            | 402            | 70            | 71             |
| Methyl fluoranthene/pyrene      | <0.04             | -              | <0.04          | -              | <0.04          | -              | -              | <0.04          | <0.04         | -              |
| Methyl fluorene                 | <0.04             | -              | <0.04          | -              | <0.04          | -              | -              | <0.04          | <0.04         | -              |
| Methyl naphthalene              | <0.02             | -              | <0.02          | -              | <0.02          | -              | -              | <0.02          | <0.02         | -              |
| Methyl phenanthrene/anthracene  | <0.04             | -              | <0.04          | -              | <0.04          | -              | -              | <0.04          | <0.04         | -              |
| Napthalene                      | <0.02             | -              | <0.02          | -              | <0.02          | -              | -              | <0.02          | <0.02         | -              |
| Phenanthrene                    | <0.02             | -              | <0.02          | -              | <0.02          | -              | -              | <0.02          | <0.02         | -              |
| Pyrene                          | <0.02             | -              | <0.02          | -              | <0.02          | -              | -              | <0.02          | <0.02         | -              |
| <b>2003 February PAH Totals</b> | <b>0.62</b>       |                | <b>0.62</b>    |                | <b>0.62</b>    |                |                | <b>0.62</b>    | <b>0.62</b>   |                |
| <b>May 2019:<sup>4</sup></b>    |                   |                |                |                |                |                |                |                |               |                |
| Acenaphthene                    | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002       | <0.0002        |
| Acenaphthylene                  | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002       | <0.0002        |
| <b>Anthracene</b>               | <b>0.0003</b>     | <0.0002        | <b>0.00031</b> | <0.0002        | <0.0002        | <b>0.00032</b> | <b>0.0002</b>  | <0.0002        | <b>0.0003</b> | <0.0002        |
| Benzo(a)anthracene              | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002       | <0.0002        |
| Benzo(a)pyrene                  | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002       | <0.0002        |
| Benzo(b)fluoranthene            | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002       | <0.0002        |
| Benzo(e)Pyrene                  | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002       | <0.0002        |
| Benzo(ghi)perylene              | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002       | <0.0002        |
| Benzo(k)fluoranthene            | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002       | <0.0002        |
| Biphenyl                        | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002       | <0.0002        |
| C1-Acenaphthenes                | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002       | <0.0002        |
| C1-Benz(a)anthracenes/Chrysenes | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002       | <0.0002        |
| C1-Benzofluoranthenes/BAPs      | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002       | <0.0002        |
| C1-Biphenyl                     | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002       | <0.0002        |
| C1-Dibenzothiophenes            | <0.001            | <0.001         | <0.001         | <0.001         | <0.001         | <0.001         | <0.001         | <0.001         | <0.001        | <0.001         |
| C1-Fluoranthenes/Pyrenes        | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002       | <0.0002        |
| C1-Fluorenes                    | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002       | <0.0002        |
| <b>C1-Naphthalenes</b>          | <b>0.00086</b>    | <b>0.00077</b> | <b>0.00088</b> | <b>0.00072</b> | <b>0.00087</b> | <b>0.00092</b> | <b>0.00078</b> | <b>0.00062</b> | <b>0.0009</b> | <b>0.00058</b> |
| C1-Phenanthrenes/Anthracenes    | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002       | <0.0002        |

| Target Analytes                 | Plot <sup>1</sup> |                |                |                |                |                |                |                |                |                |
|---------------------------------|-------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
|                                 | 11                | 109            | 4              | 110            | 114            | 123            | 117            | 402            | 70             | 71             |
| C2-Benz(a)anthracenes/Chrysenes | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        |
| C2-Benzofluoranthenes/BAPs      | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        |
| C2-Biphenyl                     | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        |
| C2-Dibenzothiophenes            | <0.001            | <0.001         | <0.001         | <0.001         | <0.001         | <0.001         | <0.001         | <0.001         | <0.001         | <0.001         |
| C2-Fluoranthenes/Pyrenes        | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        |
| C2-Fluorenes                    | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        |
| C2-Naphthalenes                 | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        |
| C2-Phenanthrenes/Anthracenes    | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        |
| C3-Benz(a)anthracenes/Chrysenes | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        |
| C3-Dibenzothiophenes            | <0.001            | <0.001         | <0.001         | <0.001         | <0.001         | <0.001         | <0.001         | <0.001         | <0.001         | <0.001         |
| C3-Fluoranthenes/Pyrenes        | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        |
| C3-Fluorenes                    | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        |
| C3-Naphthalenes                 | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        |
| C3-Phenanthrenes/Anthracenes    | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        |
| C4-Benz(a)anthracenes/Chrysenes | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        |
| C4-Dibenzothiophenes            | <0.001            | <0.001         | <0.001         | <0.001         | <0.001         | <0.001         | <0.001         | <0.001         | <0.001         | <0.001         |
| C4-Fluoranthenes/Pyrenes        | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        |
| C4-Naphthalenes                 | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        |
| C4-Phenanthrenes/Anthracenes    | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        |
| <b>Chrysene/Triphenylene</b>    | <b>0.00036</b>    | <b>0.00036</b> | <b>0.0006</b>  | <b>0.00044</b> | <b>0.00053</b> | <b>0.00078</b> | <b>0.00041</b> | <b>0.00023</b> | <b>0.00071</b> | <b>0.00073</b> |
| Dibenz(ah)anthracene            | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        |
| Dibenzothiophene                | <0.001            | <0.001         | <0.001         | <0.001         | <0.001         | <0.001         | <0.001         | <0.001         | <0.001         | <0.001         |
| <b>Fluoranthene</b>             | <b>0.00026</b>    | <b>0.00028</b> | <b>0.00042</b> | <b>0.00027</b> | <b>0.00026</b> | <b>0.00066</b> | <b>0.00034</b> | <0.0002        | <b>0.0005</b>  | <0.0002        |
| <b>Fluorene</b>                 | <b>0.00026</b>    | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        |
| Indeno(1,2,3-cd) pyrene         | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        |
| Perylene                        | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        |
| <b>Naphthalene</b>              | <b>0.00096</b>    | <b>0.00084</b> | <b>0.00088</b> | <b>0.00085</b> | <b>0.00099</b> | <b>0.001</b>   | <b>0.00094</b> | <b>0.00084</b> | <b>0.00103</b> | <b>0.00094</b> |
| <b>Phenanthrene</b>             | <b>0.00062</b>    | <b>0.00035</b> | <b>0.00045</b> | <b>0.00039</b> | <b>0.00046</b> | <b>0.00053</b> | <b>0.00048</b> | <b>0.00035</b> | <b>0.0005</b>  | <b>0.00038</b> |

| Target Analytes                       | Plot <sup>1</sup> |                |                |                |                |                |                |                |                |                |
|---------------------------------------|-------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
|                                       | 11                | 109            | 4              | 110            | 114            | 123            | 117            | 402            | 70             | 71             |
| <b>Pyrene</b>                         | <0.0002           | <0.0002        | <b>0.00025</b> | <0.0002        | <0.0002        | <b>0.00027</b> | <0.0002        | <0.0002        | <b>0.00023</b> | <0.0002        |
| Quinoline                             | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        |
| Retene                                | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        |
| 1,2,6-Trimethylphenanthrene           | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        |
| 1,2-Dimethylnaphthalene               | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        |
| 1,4,6,7-Tetramethylnaphthalene        | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        |
| 1,7-Dimethylfluorene                  | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        |
| 1,7-Dimethylphenanthrene              | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        |
| 1,8-Dimethylphenanthrene              | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        |
| 1-Methylchrysene                      | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        |
| 1-Methylfluoranthene                  | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        |
| <b>1-Methylnaphthalene</b>            | <b>0.00029</b>    | <b>0.00024</b> | <b>0.00027</b> | <b>0.00023</b> | <b>0.00029</b> | <b>0.00031</b> | <b>0.00025</b> | <b>0.00021</b> | <b>0.00032</b> | <0.0002        |
| 1-Methylphenanthrene                  | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        |
| 2,3,5-Trimethylnaphthalene            | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        |
| 2,3,6-Trimethylnaphthalene            | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        |
| 2,6-Dimethylnaphthalene               | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        |
| 2,6-Dimethylphenanthrene              | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        |
| 2/3-Methylbenzothiophene              | <0.001            | <0.001         | <0.001         | <0.001         | <0.001         | <0.001         | <0.001         | <0.001         | <0.001         | <0.001         |
| 2-Methylantracene                     | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        |
| 2-Methylfluorene                      | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        |
| <b>2-Methylnaphthalene</b>            | <b>0.00054</b>    | <b>0.00049</b> | <b>0.00055</b> | <b>0.00046</b> | <b>0.00054</b> | <b>0.00058</b> | <b>0.0005</b>  | <b>0.00041</b> | <b>0.00059</b> | <b>0.00035</b> |
| 2-Methylphenanthrene                  | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        |
| 3,11/5,9-Dimethylchrysene             | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        |
| 3,6-Dimethylphenanthrene              | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        |
| 3-Methylfluoranthene/Benzo(a)fluorene | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        |
| 3-Methylphenanthrene                  | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        |
| 4,6-Dimethyldibenzothiophene          | <0.001            | <0.001         | <0.001         | <0.001         | <0.001         | <0.001         | <0.001         | <0.001         | <0.001         | <0.001         |
| 5/6-Methylchrysene                    | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        |

| Target Analytes                     | Plot <sup>1</sup> |                |                |                |                |                |                |                |                |                |
|-------------------------------------|-------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
|                                     | 11                | 109            | 4              | 110            | 114            | 123            | 117            | 402            | 70             | 71             |
| 7,12-Dimethylbenz(a)anthracene      | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        |
| 7-Methylbenzo(a)pyrene              | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        |
| 9/4-Methylphenanthrene              | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        |
| <b>2019 PAH Totals</b>              | <b>0.01415</b>    | <b>0.01323</b> | <b>0.01431</b> | <b>0.01326</b> | <b>0.01384</b> | <b>0.01507</b> | <b>0.0137</b>  | <b>0.01266</b> | <b>0.01479</b> | <b>0.01308</b> |
| <b>May 2024:</b>                    |                   |                |                |                |                |                |                |                |                |                |
| Acenaphthene                        | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.00019       | <0.0002        | <0.0002        | <0.0002        |
| Acenaphthylene                      | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.00019       | <0.0002        | <0.0002        | <0.0002        |
| Anthracene                          | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.00019       | <0.0002        | <0.0002        | <0.0002        |
| Benzo(a)anthracene                  | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.00019       | <0.0002        | <0.0002        | <0.0002        |
| Benzo(a)pyrene                      | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.00019       | <0.0002        | <0.0002        | <0.0002        |
| <b>Benzo(b)fluoranthene</b>         | <b>0.00046</b>    | <b>0.00061</b> | <b>0.00062</b> | <b>0.00063</b> | <b>0.00058</b> | <b>0.00076</b> | <0.00019       | <0.0002        | <b>0.00053</b> | <0.0002        |
| Benzo(e)Pyrene                      | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.00019       | <0.0002        | <0.0002        | <0.0002        |
| Benzo(ghi)perylene                  | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.00019       | <0.0002        | <0.0002        | <0.0002        |
| <b>Benzo(k)fluoranthene</b>         | <b>0.00117</b>    | <b>0.00128</b> | <b>0.00080</b> | <b>0.00105</b> | <b>0.00109</b> | <b>0.00092</b> | <0.00019       | <0.0002        | <0.0002        | <0.0002        |
| <b>Biphenyl</b>                     | <b>0.00052</b>    | <b>0.00051</b> | <b>0.00047</b> | <b>0.00045</b> | <b>0.00067</b> | <b>0.00089</b> | <0.00019       | <b>0.00047</b> | <b>0.00058</b> | <b>0.00064</b> |
| <b>C1-Acenaphthenes</b>             | <b>0.00043</b>    | <b>0.00042</b> | <0.0002        | <0.0002        | <b>0.00049</b> | <b>0.00046</b> | <0.00019       | <0.0002        | <b>0.00046</b> | <b>0.00046</b> |
| C1-Benz(a)anthracenes/Chrysenes     | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.00019       | <0.0002        | <0.0002        | <0.0002        |
| C1-Benzofluoranthenes/BAPs          | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.00019       | <0.0002        | <0.0002        | <0.0002        |
| <b>C1-Biphenyl</b>                  | <b>0.00196</b>    | <b>0.00167</b> | <b>0.00161</b> | <b>0.00123</b> | <b>0.00175</b> | <b>0.00193</b> | <b>0.00791</b> | <b>0.00129</b> | <b>0.00205</b> | <b>0.00188</b> |
| <b>C1-Dibenzothiophenes</b>         | <b>0.00066</b>    | <b>0.00072</b> | <b>0.00052</b> | <b>0.00060</b> | <b>0.00052</b> | <b>0.00083</b> | <0.00019       | <b>0.00041</b> | <b>0.00067</b> | <b>0.00053</b> |
| <b>C1-Fluoranthenes/Pyrenes</b>     | <0.0002           | <0.0002        | <b>0.00061</b> | <0.0002        | <b>0.00056</b> | <b>0.00074</b> | <0.00019       | <0.0002        | <0.0002        | <b>0.00043</b> |
| <b>C1-Fluorenes</b>                 | <b>0.00086</b>    | <b>0.00074</b> | <b>0.00095</b> | <b>0.00057</b> | <b>0.00091</b> | <b>0.00080</b> | <0.00019       | <b>0.00072</b> | <b>0.00096</b> | <b>0.00085</b> |
| <b>C1-Naphthalenes</b>              | <b>0.00952</b>    | <b>0.00635</b> | <b>0.00307</b> | <b>0.00410</b> | <b>0.01150</b> | <b>0.00977</b> | <b>0.01430</b> | <b>0.00344</b> | <b>0.00819</b> | <b>0.01480</b> |
| <b>C1-Phenanthrenes/Anthracenes</b> | <b>0.00214</b>    | <b>0.00239</b> | <b>0.00297</b> | <b>0.00218</b> | <b>0.00280</b> | <b>0.00316</b> | <b>0.00985</b> | <b>0.00255</b> | <b>0.00253</b> | <b>0.00274</b> |
| C2-Benz(a)anthracenes/Chrysenes     | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.00019       | <0.0002        | <0.0002        | <0.0002        |
| C2-Benzofluoranthenes/BAPs          | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.00019       | <0.0002        | <0.0002        | <0.0002        |
| <b>C2-Biphenyl</b>                  | <b>0.00056</b>    | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <b>0.00064</b> | <0.00019       | <b>0.00031</b> | <0.0002        | <0.0002        |
| <b>C2-Dibenzothiophenes</b>         | <b>0.00880</b>    | <b>0.01600</b> | <b>0.00939</b> | <b>0.01060</b> | <b>0.00508</b> | <b>0.01680</b> | <0.00019       | <0.0002        | <b>0.01110</b> | <b>0.00087</b> |
| C2-Fluoranthenes/Pyrenes            | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.00019       | <0.0002        | <0.0002        | <0.0002        |
| C2-Fluorenes                        | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.00019       | <0.0002        | <0.0002        | <0.0002        |
| <b>C2-Naphthalenes</b>              | <b>0.00610</b>    | <b>0.00423</b> | <b>0.00301</b> | <b>0.00312</b> | <b>0.00567</b> | <b>0.00713</b> | <b>0.01290</b> | <b>0.00319</b> | <b>0.00547</b> | <b>0.00762</b> |

| Target Analytes                       | Plot <sup>1</sup> |                |                |                |                |                |                |                |                |                |
|---------------------------------------|-------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
|                                       | 11                | 109            | 4              | 110            | 114            | 123            | 117            | 402            | 70             | 71             |
| <b>C2-Phenanthrenes/Anthracenes</b>   | <b>0.00094</b>    | <b>0.00074</b> | <b>0.00140</b> | <b>0.00107</b> | <b>0.00071</b> | <b>0.00129</b> | <0.00019       | <b>0.00071</b> | <b>0.00096</b> | <b>0.00097</b> |
| C3-Benz(a)anthracenes/Chrysenes       | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.00019       | <0.0002        | <0.0002        | <0.0002        |
| <b>C3-Dibenzothiophenes</b>           | <0.0002           | <0.0002        | <b>0.00075</b> | <0.0002        | <0.0002        | <0.0002        | <0.00019       | <b>0.00057</b> | <b>0.00056</b> | <0.0002        |
| C3-Fluoranthenes/Pyrenes              | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.00019       | <0.0002        | <0.0002        | <0.0002        |
| C3-Fluorenes                          | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.00019       | <0.0002        | <0.0002        | <0.0002        |
| <b>C3-Naphthalenes</b>                | <b>0.00319</b>    | <b>0.00339</b> | <b>0.00185</b> | <b>0.00163</b> | <b>0.00320</b> | <b>0.00312</b> | <b>0.00959</b> | <b>0.00163</b> | <b>0.00349</b> | <b>0.00280</b> |
| <b>C3-Phenanthrenes/Anthracenes</b>   | <b>0.00041</b>    | <0.0002        | <b>0.00049</b> | <b>0.00047</b> | <0.0002        | <0.0002        | <0.00019       | <0.0002        | <0.0002        | <0.0002        |
| C4-Benz(a)anthracenes/Chrysenes       | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.00019       | <0.0002        | <0.0002        | <0.0002        |
| C4-Dibenzothiophenes                  | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.00019       | <0.0002        | <0.0002        | <0.0002        |
| C4-Fluoranthenes/Pyrenes              | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.00019       | <0.0002        | <0.0002        | <0.0002        |
| <b>C4-Naphthalenes</b>                | <b>0.00288</b>    | <b>0.00289</b> | <b>0.00132</b> | <b>0.00178</b> | <b>0.00224</b> | <b>0.00278</b> | <b>0.00680</b> | <b>0.00102</b> | <b>0.00299</b> | <b>0.00235</b> |
| <b>C4-Phenanthrenes/Anthracenes</b>   | <b>0.00060</b>    | <b>0.00049</b> | <b>0.00099</b> | <b>0.00052</b> | <b>0.00059</b> | <b>0.00071</b> | <0.00019       | <b>0.00045</b> | <b>0.00050</b> | <b>0.00056</b> |
| <b>Chrysene/Triphenylene</b>          | <b>0.00099</b>    | <b>0.00067</b> | <b>0.00147</b> | <b>0.00125</b> | <b>0.00103</b> | <b>0.00174</b> | <0.00019       | <b>0.00068</b> | <b>0.00089</b> | <b>0.00100</b> |
| Dibenz(ah)anthracene                  | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.00019       | <0.0002        | <0.0002        | <0.0002        |
| <b>Dibenzothiophene</b>               | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <b>0.00039</b> | <0.0002        | <0.00019       | <0.0002        | <0.0002        | <b>0.00046</b> |
| <b>Fluoranthene</b>                   | <b>0.00101</b>    | <b>0.00106</b> | <b>0.00176</b> | <b>0.00109</b> | <b>0.00135</b> | <b>0.00116</b> | <b>0.00607</b> | <b>0.00106</b> | <b>0.00128</b> | <b>0.00124</b> |
| <b>Fluorene</b>                       | <b>0.00117</b>    | <b>0.00103</b> | <b>0.00090</b> | <b>0.00077</b> | <b>0.00136</b> | <b>0.00105</b> | <b>0.00409</b> | <b>0.00094</b> | <b>0.00107</b> | <b>0.00130</b> |
| Indeno(1,2,3-cd)pyrene                | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.00019       | <0.0002        | <0.0002        | <0.0002        |
| Perylene                              | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.00019       | <0.0002        | <0.0002        | <0.0002        |
| <b>Naphthalene</b>                    | <b>0.01220</b>    | <b>0.00607</b> | <b>0.00316</b> | <b>0.00417</b> | <b>0.01790</b> | <b>0.01360</b> | <b>0.02530</b> | <b>0.00427</b> | <b>0.00973</b> | <b>0.01750</b> |
| <b>Phenanthrene</b>                   | <b>0.00419</b>    | <b>0.00417</b> | <b>0.00431</b> | <b>0.00323</b> | <b>0.00468</b> | <b>0.00392</b> | <b>0.01810</b> | <b>0.00328</b> | <b>0.00470</b> | <b>0.00471</b> |
| <b>Pyrene</b>                         | <b>0.00056</b>    | <b>0.00066</b> | <b>0.00088</b> | <b>0.00053</b> | <b>0.00074</b> | <b>0.00069</b> | <b>0.00381</b> | <b>0.00069</b> | <b>0.00073</b> | <b>0.00076</b> |
| <b>Quinoline</b>                      | <b>0.00178</b>    | <b>0.00311</b> | <b>0.00128</b> | <b>0.00154</b> | <b>0.00133</b> | <b>0.00346</b> | <b>0.00452</b> | <0.0002        | <b>0.00236</b> | <0.0002        |
| <b>Retene</b>                         | <b>0.00143</b>    | <b>0.00110</b> | <b>0.00250</b> | <b>0.00156</b> | <b>0.00179</b> | <b>0.00214</b> | <0.00019       | <b>0.00136</b> | <b>0.00110</b> | <b>0.00141</b> |
| 1,2,6-Trimethylphenanthrene           | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.00019       | <0.0002        | <0.0002        | <0.0002        |
| <b>1,2-Dimethylnaphthalene</b>        | <b>0.00088</b>    | <b>0.00086</b> | <b>0.00068</b> | <b>0.00066</b> | <b>0.00091</b> | <b>0.00143</b> | <0.00019       | <b>0.00077</b> | <b>0.00093</b> | <b>0.00096</b> |
| <b>1,4,6,7-Tetramethylnaphthalene</b> | <b>0.00048</b>    | <b>0.00062</b> | <0.0002        | <0.0002        | <b>0.00087</b> | <b>0.00076</b> | <0.00019       | <0.0002        | <b>0.00046</b> | <0.0002        |
| 1,7-Dimethylfluorene                  | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.00019       | <0.0002        | <0.0002        | <0.0002        |
| <b>1,7-Dimethylphenanthrene</b>       | <b>0.00043</b>    | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.00019       | <0.0002        | <0.0002        | <0.0002        |
| 1,8-Dimethylphenanthrene              | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.00019       | <0.0002        | <0.0002        | <0.0002        |
| 1-Methylchrysene                      | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.00019       | <0.0002        | <0.0002        | <0.0002        |

| Target Analytes                       | Plot <sup>1</sup> |                |                |                |                |                |                |                |                |                |
|---------------------------------------|-------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
|                                       | 11                | 109            | 4              | 110            | 114            | 123            | 117            | 402            | 70             | 71             |
| 1-Methylfluoranthene                  | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.00019       | <0.0002        | <0.0002        | <0.0002        |
| <b>1-Methylnaphthalene</b>            | <b>0.00389</b>    | <b>0.00254</b> | <b>0.00128</b> | <b>0.00161</b> | <b>0.00454</b> | <b>0.00375</b> | <b>0.00548</b> | <b>0.00129</b> | <b>0.00324</b> | <b>0.00601</b> |
| 1-Methylphenanthrene                  | <0.0002           | <b>0.00039</b> | <b>0.00041</b> | <0.0002        | <b>0.00047</b> | <0.0002        | <0.00019       | <b>0.00040</b> | <b>0.00045</b> | <b>0.00057</b> |
| 2,3,5-Trimethylnaphthalene            | <b>0.00077</b>    | <b>0.00074</b> | <b>0.00048</b> | <b>0.00046</b> | <b>0.00084</b> | <b>0.00087</b> | <0.00019       | <b>0.00039</b> | <b>0.00081</b> | <b>0.00083</b> |
| 2,3,6-Trimethylnaphthalene            | <b>0.00044</b>    | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <b>0.00042</b> | <0.00019       | <0.0002        | <0.0002        | <0.0002        |
| 2,6-Dimethylnaphthalene               | <b>0.00124</b>    | <b>0.00096</b> | <b>0.00064</b> | <b>0.00066</b> | <b>0.00131</b> | <b>0.00163</b> | <0.00019       | <b>0.00068</b> | <b>0.00112</b> | <b>0.00140</b> |
| 2,6-Dimethylphenanthrene              | <b>0.00062</b>    | <b>0.00087</b> | <b>0.00112</b> | <b>0.00069</b> | <b>0.00092</b> | <b>0.00113</b> | <0.00019       | <b>0.00061</b> | <b>0.00090</b> | <b>0.00078</b> |
| 2/3-Methylbenzothiophene              | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.00019       | <0.0002        | <0.0002        | <0.0002        |
| 2-Methylanthracene                    | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.00019       | <0.0002        | <0.0002        | <0.0002        |
| <b>2-Methylfluorene</b>               | <0.0002           | <b>0.00112</b> | <b>0.00020</b> | <b>0.00090</b> | <b>0.00141</b> | <b>0.00121</b> | <b>0.00556</b> | <b>0.00127</b> | <b>0.00129</b> | <b>0.00149</b> |
| <b>2-Methylnaphthalene</b>            | <b>0.00753</b>    | <b>0.00492</b> | <b>0.00237</b> | <b>0.00312</b> | <b>0.00930</b> | <b>0.00787</b> | <b>0.01170</b> | <b>0.00273</b> | <b>0.00644</b> | <b>0.01170</b> |
| <b>2-Methylphenanthrene</b>           | <b>0.00085</b>    | <b>0.00112</b> | <b>0.00110</b> | <b>0.00098</b> | <b>0.00116</b> | <b>0.00112</b> | <b>0.00400</b> | <b>0.00088</b> | <b>0.00103</b> | <b>0.00112</b> |
| 3,11/5,9-Dimethylchrysene             | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.00019       | <0.0002        | <0.0002        | <0.0002        |
| <b>3,6-Dimethylphenanthrene</b>       | <b>0.00089</b>    | <b>0.00077</b> | <b>0.00154</b> | <b>0.00113</b> | <b>0.00114</b> | <b>0.00107</b> | <0.00019       | <b>0.00085</b> | <b>0.00069</b> | <b>0.00086</b> |
| 3-Methylfluoranthene/Benzo(a)fluorene | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.00019       | <0.0002        | <0.0002        | <0.0002        |
| <b>3-Methylphenanthrene</b>           | <b>0.00065</b>    | <b>0.00070</b> | <b>0.00075</b> | <b>0.00058</b> | <b>0.00080</b> | <b>0.00086</b> | <0.00019       | <b>0.00068</b> | <b>0.00082</b> | <b>0.00081</b> |
| <b>4,6-Dimethyldibenzothiophene</b>   | <b>0.00860</b>    | <b>0.01310</b> | <b>0.00793</b> | <b>0.00895</b> | <b>0.00475</b> | <b>0.01430</b> | <0.00019       | <0.0002        | <b>0.00951</b> | <b>0.00053</b> |
| 5/6-Methylchrysene                    | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.00019       | <0.0002        | <0.0002        | <0.0002        |
| 7,12-Dimethylbenz(a)anthracene        | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.00019       | <0.0002        | <0.0002        | <0.0002        |
| 7-Methylbenzo(a)pyrene                | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.00019       | <0.0002        | <0.0002        | <0.0002        |
| 9/4-Methylphenanthrene                | <0.0002           | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.00019       | <0.0002        | <0.0002        | <0.0002        |
| <b>2024 PAH Totals</b>                | <b>0.09980</b>    | <b>0.09720</b> | <b>0.07357</b> | <b>0.07246</b> | <b>0.10515</b> | <b>0.12491</b> | <b>0.16145</b> | <b>0.04876</b> | <b>0.09956</b> | <b>0.10174</b> |

<sup>1</sup> Order of plots (plots 11 [100 m] to 71 [21 km]) indicates increasing distance from the SHTC. <sup>2</sup> Analyte not sampled on plot or during a monitoring year. <sup>3</sup> Bold italicized values indicate analyte detected above detection limit. <sup>4</sup> ½ the detection limit used to calculate total PAH values/plot in during each monitoring year.