2023 SOIL AND VEGETATION MONITORING PROGRAM REPORT

SWAN HILLS TREATMENT CENTRE

EPEA APPROVAL NO. 00001744-03-00, AS AMENDED

Prepared for:
VEOLIA WASTE SERVICES ALBERTA INC.

Prepared by:
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EXECUTIVE SUMMARY

Veolia Waste Services Alberta Inc. retained Matrix Solutions Inc., a Montrose Environmental company, to complete the 2023 soil and vegetation monitoring program for the Swan Hills Treatment Centre (SHTC), located in the Municipal District of Big Lakes, Alberta. The monitoring program has been in place since the plant began operation in 1987. Monitoring has been completed annually in the spring or fall since 1988.

Objectives and Scope of Work

The objective of the monitoring program is to assess changes in concentrations of chemicals of concern in the forested area surrounding the SHTC. This program was completed in accordance with Section 4.10 of the facility's *Environmental Protection and Enhancement Act* (EPEA) Approval No.00001744-03-00, as amended.

More specifically, the scope in 2023 was limited to the following:

- Assessing changes in chemical concentrations within ten annual monitoring plots by collecting vegetation samples and comparing the analytical results to those of previous sampling events.
    - Samples of Labrador tea leaves were collected from each plot and analyzed for inorganic and organic parameters (Table 1a).
    - Live moss samples were collected from all monitoring plots and held in the event that contaminant levels in the Labrador tea triggered analysis of the live moss layer.
        - Based on the total TEQ levels in the Labrador tea in 2023, the live moss was analyzed for congener PCBs and dioxin (PCDD) & Furans (PCDF).
- Collecting moss bags from 14 moss bag plots and deploying unexposed moss bags at these plots for collection in the following year.
        - Plot MB22 could not be accessed as the water levels in several streams leading to the plot where elevated.
- Collecting moss bags from three additional sites situated around the SHTC's fenceline.
- Completing plot maintenance on those plots with identified maintenance issues.

Methods

The monitoring program is based on a 5-year cycle. The 2023 monitoring program represents the fourth year of the 5-year monitoring cycle.

The field sampling program was completed in June 2023, consistent with the updated monitoring protocol (Appendix A).

The analytical methods are described in the monitoring protocol (Appendix A) and include the analysis of polychlorinated biphenyls (PCBs), polychlorinated dibenzodioxins (PCDD)/polychlorinated dibenzofurans (PCDF), and metals in the Labrador tea. Metals were also analyzed in the moss bags.

Results

Overall, the monitoring program indicates that historical emissions from the facility have caused certain metals and polychlorinated compounds to accumulate in the surrounding terrestrial environment. However, current levels of these compounds in the SHTC's emissions do not appear be leading to a continued accumulation in the surrounding environment, except for zinc in the live moss. In 2023 the TEQ in the Labrador tea leaves at all plots increased, however, this increase is attributed to the wildfire activity. The wildfires also appear to have caused an increase in PCBs, in the Labrador tea leaves, at the background and more peripheral monitoring plots

The following summarizes the results of the 2023 monitoring program.

Labrador Tea

- The concentration of antimony, arsenic, cadmium, copper, lead, mercury, molybdenum, and zinc were elevated at the plots near the SHTC, which is consistent with historical results. Overall, the rate or magnitude of metal deposition near the SHTC may be somewhat elevated relative to background locations. Zinc is the only parameter where concentrations appear to be increasing in the Labrador tea in recent years, although zinc concentrations have not exceeded the historical maximum recorded in 2013 or 2014.

- TEQ values in the Labrador tea leaves increased substantially relative to 2022. The increase in PCDD/DF TEQ relative to PCB TEQ was also notable in the Labrador tea.

- Labrador tea leaves represent a shorter exposure period, typically assumed to be a 1 year duration, consequently this increase in TEQ can be attributed to the fire activity in the area.

- The forest fires also appear to have caused an increase in PCBs and PCB TEQ at the background and more peripheral plots. Concentrations of PCBs also increased at those plots near the SHTC; however, this increase was within historical ranges and further monitoring is required to confirm if it is an anomaly.

Live Moss

- PCB and TEQ values in the live moss were comparable to 2022; indicating that increased forest fire emissions were not substantial enough to cause a detectable increase in the moss layer and may just have a transient effect on contaminant concentrations in the vegetation.

Moss Bags and Lichen Monitoring Sites

- There was no statistically significant differences in metal concentrations between Zones 1 and 2 and there were no obvious differences in metal concentrations between moss bag plots.

- In 2021 moss bags were also deployed at fenceline air monitoring Sites 1 (downwind of the Solidification and Stabilization building), 5 (upwind of the SHTC), and 9 (downwind of the landfill). Most metallic parameters were elevated at Site 9 relative to Sites 1 and 5.

A decrease in vigour was only observed at 1 of 45 lichen sub-sites and overall the vitality of lichen appeared to be unchanged relative to the previous monitoring period in 2022. Overall, there is no evidence that emissions from the SHTC are affecting lichen health.

Recommendations for the 2024 Program

In 2024 the annual and expanded program plots will be sampled and analyzed as per the updated monitoring schedule in Appendix A1. Additional scope items for 2024 include:

- If fly ash is processed in significant quantities in 2024, additional TSP sampling will be completed utilizing the high-volume samplers situated along the SHTC's fenceline. The purpose of this sampling would be to identify whether fly ash is being inadvertently liberated to the atmosphere during solidification or disposal. Moss bags were also deployed in June 2023 at three fenceline monitoring sites (Sites 1, 5 and 9) and will be collected in the spring/early summer 2024.

In addition to the planned scope, a facility upset resulting in offsite emissions of significant magnitude would result in soil and vegetation sampling at selected sites immediately following incident. The number/location of sites and analytical scope would be based on meteorological conditions and the nature of the release.

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1 INTRODUCTION

Veolia Waste Services Alberta Inc. retained Matrix Solutions Inc. to complete the 2023 soil and vegetation monitoring program for the Swan Hills Treatment Centre (SHTC), located in the Municipal District of Big Lakes (Figure 1). The monitoring program has been in place since the plant began operation in 1987. Monitoring has been completed annually in the spring or fall since 1988. Baseline samples were collected before operation between 1985 and 1987.

The SHTC treats hazardous waste using incineration, physical/chemical treatment, and solidification/ stabilization technologies.

1.1 Objectives and Scope of Work

Forest environments are considered to be sinks for atmospheric pollutants, with pollutants (such as polychlorinated biphenyls [PCBs]) being deposited on forest vegetation and eventually being stored within the leaf litter (Nizzetto et al. 2008; Wania and Mclachlan 2001). The objective of the monitoring program is to assess changes in concentrations of chemicals of concern in the forested area surrounding the SHTC. This program was completed in accordance with Section 4.10 of the facility's *Environmental Protection and Enhancement Act* (EPEA) Approval No. 00001744-03-00, as amended.

More specifically, the scope in 2023 was limited to the following:

- Assessing changes in chemical concentrations within ten annual monitoring plots by collecting vegetation samples and comparing the analytical results to those of previous sampling events.
    - Samples of Labrador tea leaves were collected from each plot and analyzed for inorganic and organic parameters (Table 1a).
    - Live moss samples were collected from all monitoring plots and held in the event that contaminant levels in the Labrador tea triggered analysis of the live moss layer.
        - Based on the total TEQ levels in the Labrador tea in 2023, the live moss was analyzed for congener PCBs and dioxin (PCDD) & furans (PCDF).
- Collecting moss bags from 15 moss bag plots and deploying unexposed moss bags at these plots for collection in the following year.
    - Plot MB22 could not be safely accessed in 2023
- Collecting moss bags from three additional sites situated around the SHTC's fenceline.
- Completing plot maintenance on those plots with identified maintenance issues.

2 BACKGROUND

This section includes a brief description of the regional setting, the site facilities, and the historical monitoring program.

2.1 Regional Characteristics

Regional characteristics for the area are described in Table A.

TABLE A Regional Characteristics

Topography	Steep slopes and hilly topography generally characterize the area (WPK 2007).
Surface Drainage	The area surrounding the SHTC is drained by the Coutts River system (WPK 2007). Christina Lake is situated 1.5 km northeast of the SHTC.
Parent Geological Materials	The glacial till, from which the soils in the area are formed, is stony and generally fine-textured (Lindsay et al. 1963). The average thickness of these deposits is 10 m (Moell C.E. & Associates 1983). Based on previous environmental investigations, the till had a low hydraulic conductivity (WPK 2007).
Soil Types	Grey Luvisols are typically found in well-drained locations and Organic soils occur in poorly drained locations within the area (Lindsay et al. 1963).
Vegetation	Three dominant ecosites were identified near the SHTC (HBT 1994) using a preliminary classification system. The ecosites are summarized as follows: • Lodgepole pine/black spruce ecosites associated with Grey Luvisols and Humic Gleysols. • Black spruce/Labrador tea/feather moss ecosites associated with Humic Gleysols. • Black spruce/sedge-cloudberry/sphagnum ecosites associated with Typic and Terric Mesisols.
Land Use	The area surrounding the site is zoned public land within the Green Area of Alberta.

2.2 Facility Operations

The SHTC has operated since 1987 and primarily treats hazardous waste through incineration, physical/chemical treatment, and solidification/stabilization technologies. The SHTC has a large rotary kiln which is used to incinerate organic liquid, sludge, and solid wastes, including those that contain PCBs.

In July 2015, the SHTC obtained approval to treat biomedical waste. These wastes are also treated in the incineration system.

As of May 2021 the SHTC has reduced the quantity of waste it accepts and processes in line with the base scope of operation. Annually the SHTC will accept up to 1,500 tonnes of waste; approximately 1,200 tonnes of biomedical waste and 300 tonnes of PCB waste. Other waste streams require approval from Alberta Infrastructure prior to disposal.

2.3 Contaminants of Concern

To assess the effect of facility operation on the surrounding area, there are monitoring programs for surface water bodies and aquatic biota, wildlife, as well as soil and vegetation. The soil and vegetation monitoring program has been completed annually at the site since 1988.

Based on available monitoring results, elevated PCB, polychlorinated dibenzodioxins (PCDD), and polychlorinated dibenzofurans (PCDF) concentrations in the moss and Labrador tea leaves near the SHTC are related to fugitive emissions from the SHTC (Matrix 2023). Select metal parameters have also been detected as co-contaminants at those plots impacted by chlorinated organic compounds.

Metal or polychlorinated compounds measured in the moss layer are likely representative of the cumulative accumulation of these compounds via atmospheric deposition as studies have demonstrated that mosses do absorb contaminants from the underlying substrate (Kłos et al. 2012, Kosior et al. 2017). It also appears that although the feather moss layer continues to grow (Benscoter and Vitt 2007), the continued uptake of PCBs from the historical moss layer negates any growth related dilution or PCBs are concentrated in the lower portion of the live moss layer.

There appears to be some year-over-year variability in PCB concentrations in the live moss which could be partially explained by spatial heterogeneity; however, there may be other exogenous factors affecting PCB concentrations.

Polychlorinated compounds detected in the Labrador tea leaves are likely representative of compounds deposited from the atmosphere over a 1-year exposure period. This is based on the following rationale:

- Only the less chlorinated PCB congeners are translocated through the xylem in vascular plants (Liu and Schnoor 2008). The PCBs in the Labrador tea leaves near the SHTC tend to be penta- to octa-chlorinated congeners, indicating that root uptake is an unlikely source.
- It is unlikely that PCBs have been stored in the plant from past deposition events (Trapp et al. 2001).
- The most common pathway for atmospherically deposited PCBs to be assimilated by vegetation is through the leaf (Undeman et al. 2009).

Based on the most recent air modelling report for the SHTC (Zelt PSI 2021), the effect of emissions from the SHTC would be most evident at Plots 4, 11, 109, and 114 with PCB concentrations in the air being most concentrated in the vicinity of Plots 4 and 109. The predicted deposition zones for PCBs are supported by the historical spatial distribution of PCBs in the vegetation surrounding the SHTC.

Further discussion of historical results and long-term trends are included in Section 4.

2.4 Recent Accidental Releases to Air

In 2021, the SHTC did have two accidental releases of organic vapours from a valve at the organic tank farm (EPA reference numbers 377133 and 376458); however, the duration of these releases was <24 hours in each instance. A manual stack survey conducted between June 23 and 25, 2021, identified that the stack on the kiln had exceeded the mercury emission limit (EPA reference number 383610).

Mitigations were enacted following these incidents to prevent the issues from re-occurring and these mitigations were documented in follow-up letters provided to EPA in 2021.

3 METHODS

Matrix personnel were required to comply with legislated, Matrix, and Veolia health and safety standards.

The monitoring program is based on a 5-year cycle. The 2023 monitoring program represents the 4th year of the 5-year monitoring cycle.

The methodology employed during the monitoring program is provided in Appendix A. Only details specific to the 2023 program or supplemental work completed are discussed below.

3.1 Sampling Program

The field sampling program was completed between June 19 to 21, 2023 and June 29, 2023, as per the monitoring protocol provided in Appendix A. Monitoring plots are shown on Figure 2, coordinates are provided in Table 1a, and plot location maps are provided in Appendix B.

Plot maintenance is documented in Table 1b.

Acid washed moss bags were collected from 13 of 15 moss bag locations in 2023. The moss bag at MB26 could not be located. Plot MB22 could not be accessed as the water levels in several streams leading to the plot where elevated. The moss bags were replaced with unexposed moss to be collected in 2024.

Additional work completed on this program in 2023 is summarized below.

3.1.1 Ambient Air Monitoring

Moss bags were deployed at Sites 1, 5A, and 9 in 2022 to collect data on metal deposition immediately upwind and downwind of the SHTC. Site 5A is situated upwind of the facility near the kiln (Figure 3). The moss bags were collected in 2023 for metals analysis and new moss bags were deployed.

3.2 Analytical Program

The analytical methods for the moss and Labrador tea leave samples are summarized in Table 1c. Samples were submitted to ALS laboratories in Edmonton, Alberta, for analysis.

3.3 Data Evaluation

The R statistical software (R Core Team 2021) was used to analyze the data. The methodology for data analysis is summarized in the monitoring protocol appended to this report (Appendix A, Section 3.5 of monitoring protocol).

Control charts were constructed to evaluate trends in key metal parameters, PCB concentrations and toxic equivalence (TEQ) values. Transformations were employed to normalize the data; however, the units shown on the y-axis of the control charts are untransformed. For all plots, PCB, metal, and TEQ data between 2003 to 2013 appeared stable and was used as a baseline for the control charts. The upper and lower control limits depicted in the charts were calculated by adding or subtracting 2 standard deviations from the mean of the baseline values. The purpose of the control charts is to provide another means to flag increasing or decreasing trends in the data.

Control charts were created for metal parameters where enough historical data was present in both sample matrices.

Soil results were compared to the *Alberta Tier 1 Soil and Groundwater Remediation Guidelines* (Tier 1; AEP 2022).

4 MONITORING PROGRAM RESULTS

There were several forest fires in the Swan Hills area starting in May 2023, with peak fire activity occurring prior to the June sampling event. The effect that emissions from the forest fires may have on the surrounding terrestrial environment is discussed where relevant in this section.

The results of 2023 monitoring program are discussed in the following subsections. Results are tabulated in Tables 2 to 9 and in the laboratory reports (Appendix C). A comparison of the 2023 data to the previous year, results of the Mann-Kendall trend analysis and summary statistics (maximum/minimum, median, and 25^{th}/75^{th} percentiles) are provided in Appendix D.

Graphs depicting the historical (box plots) and temporal trends (trend graphs) at the soil and vegetation plots are provided in Appendix E. Control charts for select metals, PCB and TEQ values at Plots 4, 11, 109, and 114 are provided in Appendix F.

The historical inorganic data from previous monitoring programs is tabulated in Appendix G. Historical organic parameter results for the live moss and Labrador tea leaves are tabulated in Tables 3 and 7.

Photographs of the lichen plots are provided in Appendix H and graphs of the moss bag data since 2021 are shown in Appendix I.

4.1 Nutrients (Table 5)

There were no notable trends in nutrient values in the Labrador tea compared to historical values for each plot (Appendix G, Table G4).

4.2 Metals (Tables 4 and 8)

Since the analytical method was updated in 2019, the detection limit for most metal parameters has decreased and the precision of the results appears to have increased.

Trends in the following key metal parameters have been evaluated further graphically and statistically in Appendices D to E: aluminum (Al), antimony (Sb), arsenic (As), cadmium (Cd), chromium (Cr), copper (Cu), lead (Pb), mercury (Hg), molybdenum (Mo), nickel (Ni), silver (Ag), tin (Sn), and zinc (Zn). These parameters are considered indicators that atmospheric pollutants are being emitted from the SHTC and could be accumulating in the surrounding vegetation (moss and Labrador tea). Control charts were developed for select metallic parameters that have been found to be elevated in the vegetation near the SHTC (Appendix F)

Concentrations of barium (Ba), beryllium (Be), boron (B), cobalt (Co), manganese (Mn), selenium (Se), thallium (Tl), uranium (U), and vanadium (V) were near or below current background levels (Plots 70 and 71) in the Labrador tea.

Concentrations of iron (Fe) at those plots near the SHTC (Plots 4, 11, 109, and 114) were comparable to historical concentration ranges at background Plots 70 and 71.

The concentrations of lithium (Li), strontium (Sr), zirconium (Zr), and titanium (Ti) are tabulated in both the current and historical results tables but are not considered to be contaminants of concern and are not discussed further.

4.2.1 Spatial Trends

The following metal parameters have demonstrated a discernible spatial trend over the past 10 years with a number of metals being elevated in plots near the SHTC (Appendix D and E):

- Antimony remained elevated at Plot 4. This trend became apparent in 2019 when the detection limit for the analytical method decreased from 0.1 mg/kg to 0.01 mg/kg.
- Nickel remained elevated at some of the more distant plots (Plots 114, 117, and 123).
- arsenic, cadmium, copper, lead, mercury, molybdenum, and zinc have been elevated at plots near the SHTC (one or more of Plots 4, 11, 109, and 114). Concentrations of these parameters at one or more of Plots 4, 11, 109, and 114 remained elevated in 2023.

4.2.2 Temporal Trends

Table B summarizes increasing temporal trends for key metal parameters. Detailed statistical information is provided in Appendix D.

TABLE B Summary Temporal Trends Key Metal Parameters

Parameter	Annual Vegetation Plots			
	>40% Change From Previous Year[1]	Exceeds Historic Values[2]	Increasing Trend - Visual Assessment[3]	Increasing Trend - Mann-Kendall[4]
Labrador Tea				
Aluminum	Plot 114	No	No	No
Antimony	Plot 4 and Plot 70	No	No	No
Arsenic	No	Plots 71	No	No
Cadmium	Plots 4, 11, 70, 71, 110, 117, 123, and 402	Plot 11 and Plot 71	No	No
Chromium	No	No	No	No
Copper	No	No	No	No
Lead	No	No	No	No
Mercury	No	No	No	No
Molybdenum	Plot 11 and 71	No	No	No
Nickel	Plot 110, 114, and 117	Plot 109, 110, 114, and 117	No	No
Silver	No	No	No	No
Tin	No	No	No	No
Zinc	No	Plots 4, 11, 70, 117, 123, and 402	Plot 4	No

[1]Year over year concentration increase exceeds 40%
[2]Exceeds 75th percentile of historic values
[3]Increasing trends were assessed visually using the 5-year trend graphs provided in Appendix E
[4]A Mann-Kendal result was considered significant if the p-value associated with the test result was less than 0.05

Those metal parameters which increased in concentration more than 40% year-over-year are only discussed if this increase also exceeded the 75th percentile of historic values.

- Arsenic concentrations in the Labrador tea at Plot 71 was elevated relative to historical values in 2023. Since Plot 71 is a background plot, the increase in arsenic is due to other regional factors.

- Cadmium concentrations were detectable at Plots 11 and 71, which is not typical for these plots. Further investigation is required to determine if this represents a trend.

- Nickel concentrations were elevated at Plots 109, 110, 114, and 117 in 2023. The detection limits for nickel were only recently lowered (2019 Monitoring Year) to a level where nickel can be reliably detected. There is limited data to evaluate trends but nickel concentrations in 2023 appear to be an anomaly.

- Zinc concentrations were elevated at both plots near/downwind of the SHTC (Plots 4, 11, 117, and 123) and background Plot 70. The control chart indicates that zinc at Plot 4 has been increasing in recent years but are still within the control limits. The control charts for the other plots situated near the SHTC (Plots 11, 109, and 114) indicate that zinc concentrations are within control limits with no apparent trends.

In 2022, tin concentrations were elevated at most plots; however, in 2023 tin was non-detect at all plots indicating that the increase in 2022 was anomalous.

4.2.3 Moss Bags

The peat moss deployed in 2022, was acid washed at Alberta Innovates (Appendix A; Table A1.3). The peat moss is deployed for a 1-year exposure period and the date listed in Table 8 is the date the moss was collected.

Based on the moss bag data there were several parameters that were statistically greater in the exposed versus unexposed moss bags (Appendix D; Table D.3). However, there were no statistically significant differences between Zone 1 and 2 for the metals that had accumulated in the moss bags. The moss bag data does not demonstrate that metals are being deposited near the SHTC at statistically significant rates.

The moss bag data collected from 2019 onward is presented on the graphs in Appendix I; 2019 is the year when acid washing was incorporated in moss bag preparation. Moss bag data from 2021 was omitted from the graphs in Appendix I as the acid washing step was less effective in reducing baseline metal levels in the peat moss deployed the year prior. Additional data is required to evaluate trends in the moss bag data.

In 2022 moss bags were also deployed at air monitoring Sites 1 (downwind of the Stabilization and Solidification Building), 5 (upwind of the SHTC), and 9 (downwind of the landfill). The moss bags were collected in June 2023. Metal concentrations were similar between the moss bags collected in 2023 and 2022 (Table G5). Several parameters in these moss bags were elevated relative to the unexposed moss (Table 8). Metal concentrations at Site 1 were similar to Site 5; most metal parameter concentrations at Site 9 (antimony, copper, lead, molybdenum, silver, and zinc) were elevated relative to Sites 1 and 5. Metal concentrations in the moss bags at the SHTC's fence line were elevated relative to the more peripheral moss bag plots.

4.2.4 Significance

In the Labrador tea, arsenic, cadmium, copper, lead, mercury, molybdenum, and zinc were elevated at the plots near the SHTC, which is consistent with historical results. Since the methodology for extracting metals from vegetative tissue was updated in 2019, antimony also appears to be elevated in the Labrador tea at Plot 4. As discussed in previous reports (Matrix 2023) the metal concentrations in the Labrador tea leaves may represent a combination of recent atmospheric deposition and translocation from the plants roots.

Overall, the rate or magnitude of metal deposition near the SHTC may be somewhat elevated relative to background locations. Zinc is the only parameter where concentrations appear to be increasing in the Labrador tea in recent years, although zinc concentrations have not exceeded the historical maximums recorded at most plots in 2013 or 2014, and have been variable historically. Wildfires are also a known natural source of zinc emissions and the increase in zinc in 2023 may be due to wildfire activity in the region (Li and Cornett 2011).

4.3 Polychlorinated Organic Compounds (Tables 2, 3, 6, and 7)

A summary of key trends for organic parameters (PCBs and PCDD/PCDF) is presented below.

- Generally, PCB compounds with a higher degree of chlorination and higher molecular weight were detected in the live moss and Labrador tea in 2023. This is consistent with what is understood regarding depositional patterns of PCB congeners from the atmosphere (Wania and Mackay 1996).

- There are no statistically significant long-term increasing trends for any PCBs or dioxin like PCBs near the SHTC, based on the Mann-Kendall analysis (Appendix D; Table D.1). Although 2023 Labrador tea PCB concentrations were typically greater than 2022 levels, but still within historical ranges.

- The TEQ, in the Labrador tea, increased in 2023 across all plots including background locations. This increase triggered the analysis of congener PCBs and PCDD/PCDF in the live moss.

A detailed summary of trends is presented below, a statistical evaluation of these trends is presented in Appendices D, E, and F. Note the trend analysis was only completed for the Labrador tea.

4.3.1 Polychlorinated Biphenyls (Appendix E, Figures E.27 and E.28)

Spatially, PCB concentrations in the Labrador tea were greatest near the SHTC at Plots 4 and 109 in 2023, which is consistent with historical results. PCB concentrations decrease with distance from the SHTC as shown on the box plot.

2023 Labrador tea PCB concentrations were typically greater than 2022 levels; although still within historical ranges (Table 7 and Appendix D). The increase in PCBs at the background plots was associated with an increase in congeners with a low degree of chlorination; whereas the increase in PCBs near the SHTC was associated with congeners of a higher degree of chlorination and molecular weight. As plots increased with distance from the SHTC the increase in PCBs was driven largely by less chlorinated congeners similar to the background plots.

Irrespective of the rebound in PCB concentrations between 2022 and 2023, there is a statistically significant long-term decreasing trend in PCB concentrations at all plots including the background plots (Appendix D).

PCB concentrations in the live moss were comparable to 2022 (Tables 2 and 3) and did not demonstrate the same increase from 2022 to 2023 as observed in the Labrador tea.

Toxic Equivalent Values (Appendix E, Figures E.29 to E.34)

Overall, TEQ levels in Labrador tea at plots near the SHTC are lower than levels observed in the live moss.

The total TEQ in the Labrador tea increased from 2022 to 2023. A significant increasing trend, in total TEQ, was noted in several peripheral plots (Plot 110, 117, 123, and 402). This increasing trend occurred at plots

where the 2023 value exceeded the historical maximum; and this trend is likely an artifact of the non-monotonic increase in TEQ values in 2023.

PCB TEQ increased at all plots in 2023 relative to 2022, including the background plots (Table D.1). Except for the background plots, the increase in PCB TEQ was within historical ranges.

Typically, in the Labrador tea, co-planar PCBs (PCB TEQ) represent a significant proportion of the total TEQ value in those plots situated near the SHTC (Plots 4, 11, 109, and 114) and PCDD/PCDF TEQ becomes proportionally greater with distance. Near the SHTC in 2023, the ratio of PCB TEQ to PCDD/DF TEQ was nearly equivalent and the overall increase in TEQ was caused by a substantial increase in PCDD/DF TEQ at all the plots.

TEQ values in the live moss in 2023 were similar to values measured in 2022.

4.3.2 Significance

Vegetation samples were collected in June after fire activity in the area had peaked. TEQ values in the Labrador tea leaves increased substantially relative to 2022; the increase in PCDD/DF TEQ relative to PCB TEQ was also notable. Labrador tea leaves represent a shorter exposure period, typically assumed to be a 1-year duration, consequently this increase in TEQ can be attributed to the fire activity in the area. PCDD/DF have been shown to be released when biomass (including forests) is burned (CCME 2002).

The forest fires also appear to have caused an increase in PCBs and PCB TEQ in the Labrador tea at the background and more peripheral plots. Concentrations of PCBs also increased at those plots near the SHTC; however, this increase was within historical ranges and monitoring in 2024 will help to confirm if it is an anomaly.

PCB and TEQ values in the live moss were comparable to 2022; indicating that increased forest fire emissions were not substantial enough to cause a detectable increase in the moss layer and may just have a transient effect on contaminant concentrations in the vegetation.

4.4 Lichen Vitality

In 2023 the health of lichen at the moss bag plots was documented (Table 9) and all three sub-sites were photographed (Appendix H). The following plots appeared to demonstrate a decrease in lichen health in 2023 relative to 2022:

MB4 (4-1) - The health of the lichen at sub-site 4-1 decreased by one rating unit in 2023 relative to 2022. Conversely the health of the lichen at Site 4-2 improved in rating from 2 to 3 and the health rating for Site 4-3 remained the same. The health at lichen Site 4-3 had decreased from 2014 to 2022; however, this appears to be due to the bark that hosts the lichen being stripped.

Overall decreased vigour was only observed at 1 of 45 lichen sub-sites. An increase in lichen vigour was observed at 2 plots (4-2 and 9-2).

4.5 Quality Control Sample Results

4.5.1 Sampling Precision

A summary of quality control (QC) sample results is provided in Tables 10 to 12. An explanation of Matrix's quality assurance/quality control (QA/QC) protocol is provided in Appendix J.

The reproducibility of blind field duplicates was generally considered to be good and the RPDs of all parameters were less then 40% except for the following:

- The reproducibility of thallium in the blind duplicate sample collected from the Labrador tea at Plot 109 was rated poor (Table 11a; RPD 48%). Reanalysis of the duplicate samples confirmed that the distribution of thalium in the Labrador tea is heterogenous at this location.

- Several of the PCB and PCDD/PCDF congeners were rated poor for reproducibility in the live moss sample collected from Plot 109 (Table 10). Sample reanalysis yielded similar results and the RPD ranged up to 53% which is only slightly above the RPD criteria.

The concentrations of PCBs were less than the detection limit in all field blanks collected (Table 12), indicating that sample contamination did not occur during sample collection and transport.

4.5.2 Laboratory Quality Assurance

Laboratory QA/QC procedures are summarized in Appendix C. As instructed by Veolia, ALS provided a Level IV data package for the organic analysis. Matrix reviewed the laboratory data and QC results provided by ALS and deemed the data to be reliable.

5 SUMMARY

Overall, the monitoring program indicates that historical emissions from the facility have caused certain metals and polychlorinated compounds to accumulate in the surrounding terrestrial environment. However, current emissions from the SHTC do not appear to be leading to continued accumulation in the surrounding environment, except for zinc in the live moss. In 2023 the TEQ in the Labrador tea leaves at all plots increased, however, this increase is attributed to the wildfire activity. The wildfires also appear to have caused an increase in PCBs, in the Labrador tea leaves, at the background and more peripheral monitoring plots

The following summarizes the results of the 2023 monitoring program.

Labrador Tea

- The concentration of antimony, arsenic, cadmium, copper, lead, mercury, molybdenum, and zinc were elevated at the plots near the SHTC, which is consistent with historical results. Overall, the rate or magnitude of metal deposition near the SHTC may be somewhat elevated relative to background locations. Zinc is the only parameter where concentrations appear to be increasing in the Labrador tea

in recent years, although zinc concentrations have not exceeded the historical maximum recorded at most plots in 2013 or 2014.

- TEQ values in the Labrador tea leaves increased substantially relative to 2022. The increase in PCDD/DF TEQ relative to PCB TEQ was also notable in the Labrador tea.

- Labrador tea leaves represent a shorter exposure period, typically assumed to be a 1 year duration, consequently this increase in TEQ can be attributed to the fire activity in the area.

- The forest fires also appear to have caused an increase in PCBs and PCB TEQ at the background and more peripheral plots. Concentrations of PCBs also increased at those plots near the SHTC, however, this increase was within historical ranges and further monitoring is required to confirm if it is an anomaly.

Live Moss

- PCB and TEQ values in the live moss were comparable to 2022; indicating that increased forest fire emissions were not substantial enough to cause a detectable increase in the moss layer and may only have a transient effect on contaminant concentrations in the vegetation.

Moss Bags and Lichen Monitoring Sites

- There was no statistically significant differences in metal concentrations between Zones 1 and 2 and there were no obvious differences in metal concentrations between moss bag plots.

- In 2022 moss bags were also deployed at fenceline air monitoring Sites 1 (downwind of the Solidification and Stabilization building), 5 (upwind of the SHTC) and 9 (downwind of the landfill). Most metallic parameters were elevated at Site 9 relative to Sites 1 and 5.

- A decrease in vigour was only observed at 1 of 45 lichen sub-sites and overall the vitality of lichen appeared to be unchanged relative to the previous monitoring period in 2022. Overall, there is no evidence that emissions from the SHTC are affecting lichen health.

6 RECOMMENDATIONS

In 2024 the annual and expanded program plots will be sampled and analyzed as per the updated monitoring schedule in Appendix A1. Additional scope items for 2024 include:

- If fly ash is processed in significant quantities, additional TSP sampling will be completed utilizing the high volume samplers situated along the SHTC's fenceline. The purpose of this sampling would be to identify whether fly ash is being inadvertently liberated to the atmosphere during solidification or disposal. Moss bags were also deployed in June 2023 at three fenceline monitoring sites (Sites 1, 5 and 9) and will be collected in the spring/early summer 2024.

In addition to the planned scope, a facility upset resulting in offsite emissions of significant magnitude would result in soil and vegetation sampling at selected sites immediately following incident. The number/location of sites and analytical scope would be based on meteorological conditions and the nature of the release.

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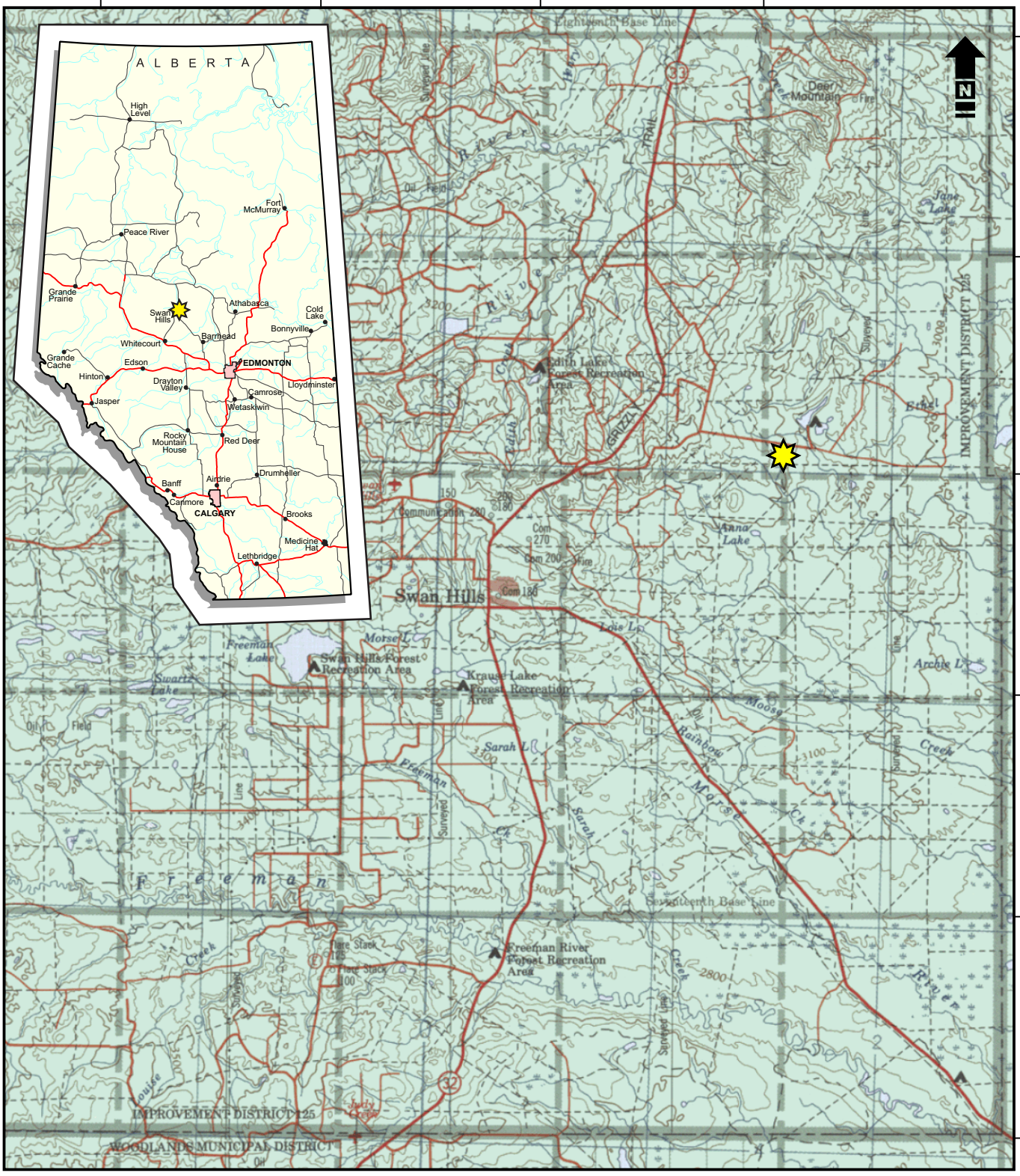

Site Location

Reference: 83J (Whitecourt), Edition 2, UTM Zone 11, NAD 83

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1:250,000 metres

2,500 0 2,500 5,000

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

Veolia Waste Services Alberta Inc.
Swan Hills Treatment Centre W1/2-06-067-08 W5M

Site Location Plan

Date:	Project:	Technical:	Reviewer:	Drawn:
February 2016	15867-LP-15	L. Oiffer	D. Keyes	J. Li

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Figure 1

F:\15867\Drafting\2015\15867-LP-15.cdr

Easting (m)

611000 612000 613000 614000 615000 616000 617000 618000 619000 620000 621000 622000

Northing (m)

6076000 6075000 6074000 6073000 6072000 6071000 6070000 6069000 6068000 6067000

N

Saulteaux River

Cowper Creek

67-9-W5

67-8-W5

66-9-W5

66-8-W5

MB50 Plot 81 MB26 Plot 121 MB19 Plot 26 Plot 28 Plot 15 MB11 Plot 11 Plot 1 MB2 Plot 2 Plot 104 Plot 6 Plot 12 MB15 MB1 Plot 109 Plot 4 MB4 MB5 Plot 5 Plot 102 Plot 8 Plot 7 Plot 9 Plot 123 MB9 Plot 13 MB14 Plot 14 Plot 16 Plot 29 Plot 402 Plot 110 Plot 114 Plot 103 Plot 80 MB20 Plot 27 Plot 117 MB24 (Former) MB24 MB22

Road
Annual Monitoring Location
Expanded Program Monitoring Location
Moss Bag Monitoring Location

1:40,000 metres
420 0 420 840
NAD 1983 UTM Zone 11N

Reference: Data obtained from AltaLIS © Government of Alberta used under license. GDM transportation infrastructure data provided by IHS © 2017 used under license. Imagery (2014) obtained from Valtus © (2017) used under license.

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

Veolia Waste Services Alberta Inc.
Swan Hills Treatment Centre - Soil and Vegetation Monitoring Program

Soil and Vegetation Plots

Date:	Project:	Submitter:	Reviewer:
Sep 2017	15867	L. Oiffer	K. Ostermann

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Figure 2

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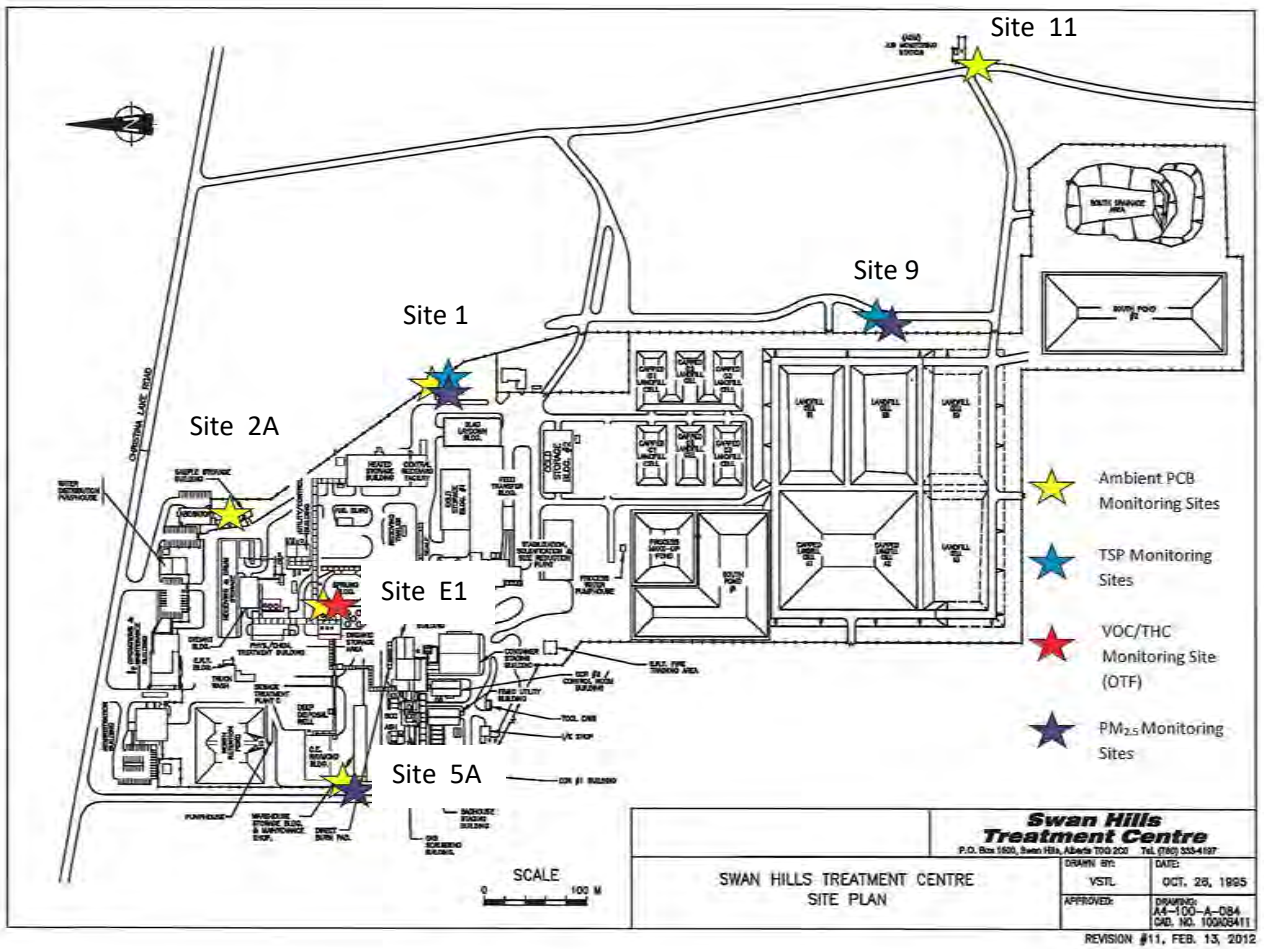

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

Veolia Waste Services Alberta Inc.
Swan Hills Treatment Centre

Air Sampling Device Locations

Date:	Project:	Submitter:	Reviewer:
January 7, 2022	15867	L. Oiffer	K. Ostermann

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Figure 3

TABLE 1a

Sample Program

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	UTM (m)		MSI Sample Number	Metals[1]	Nutrients[2]	PCBs (HRMS)	PCDD/PCDF
		Northing	Easting					
Labrador Tea Leaves								
Plot 4	19-Jun-23	6071027	615111	15867230619103	x	x	x	x
Plot 11	29-Jun-23	6071792	614644	15867230629112	x	x	x	x
Plot 70	19-Jun-23	6067388	603071	15867230619101	x	x	x	x
Plot 71	19-Jun-23	6090717	610660	15867230619104	x	x	x	x
Plot 109	20-Jun-23	6071109	614333	15867230620107	x	x	x	x
Plot 109*	20-Jun-23	6071109	614333	15867230620108			x	x
Plot 110	20-Jun-23	6070621	614146	15867230620109	x	x	x	x
Plot 114	20-Jun-23	6070370	615636	15867230620106	x	x	x	x
Plot 117	20-Jun-23	6069476	616123	15867230620105	x	x	x	x
Plot 123	19-Jun-23	6072155	616302	15867230619102	x	x	x	x
Plot 402	20-Jun-23	6070378	622256	15867230620110	x	x	x	x
Plot 402*	20-Jun-23	6070378	622256	15867230620111	x	x	x	x
Live Moss								
Plot 4	19-Jun-23	6071027	615111	15867230619003			x	x
Plot 11	29-Jun-23	6071792	614644	15867230629012			x	x
Plot 70	19-Jun-23	6067388	603071	15867230619001			x	x
Plot 71	19-Jun-23	6090717	610660	15867230619004			x	x
Plot 109	20-Jun-23	6071109	614333	15867230620007			x	x
Plot 109*	20-Jun-23	6071109	614333	15867230620008			x	x
Plot 110	20-Jun-23	6070621	614146	15867230620009			x	x
Plot 114	20-Jun-23	6070370	615636	15867230620006			x	x
Plot 117	20-Jun-23	6069476	616123	15867230620005			x	x
Plot 123	19-Jun-23	6072155	616302	15867230619002			x	x
Plot 402	20-Jun-23	6070378	622256	15867230620010			x	x
Plot 402*	20-Jun-23	6070378	622256	15867230620011			x	x
Moss Bags								
MB1	19-Jun-23	6071636	614877	15867230619208	x			
MB2	19-Jun-23	6071499	615167	15867230619209	x			
MB4	19-Jun-23	6071042	615113	15867230619202	x			
MB5	19-Jun-23	6070830	615191	15867230619203	x			
MB9	19-Jun-23	6071537	616313	15867230619201	x			
MB11	29-Jun-23	6071793	614620	15867230629218	x			
MB14	20-Jun-23	6070786	617626	15867230620212	x			
MB15	19-Jun-23	6071257	614272	15867230619207	x			
MB19	21-Jun-23	6072437	611431	15867230621214	x			
MB20	20-Jun-23	6069869	614958	15867230620211	x			
MB22	-	6068502	615759	could not access	x			
MB24	21-Jun-23	6069288	620330	15867230621215	x			
MB26	-	6073143	612778	could not locate sample	x			
MB50	21-Jun-23	6075021	611447	15867230621213	x			
MB71	19-Jun-23	6090717	610660	15867230619210	x			
Site 1	19-Jun-23	NA	NA	15867230619205	x			
Site 5	19-Jun-23	NA	NA	15867230619206	x			
Site 9	19-Jun-23	NA	NA	15867230619204	x			

* Duplicate sample

[1] Includes aluminum, antimony, arsenic, barium, beryllium, boron, cadmium, chromium, cobalt, copper, iron, lead, lithium, manganese, mercury, molybdenum, nickel, selenium, silver, strontium, thallium, tin, titanium, uranium, vanadium, zinc, zirconium

[2] Includes calcium, magnesium, phosphorous, potasium, sodium, sulphur. Labrador tea samples were analyzed for nitrogen. Live Moss samples were analyzed for pH/EC and nitrogen.

TABLE 1b

Plot Maintenance

Veolia

W ½ 06-067-08 W5M

Sample Point	Maintenance Completed 2023	Maintenance Required
Annual Plots		
Plot 4	None	None
Plot 11	None	None
Plot 70	None	None
Plot 71	None	None
Plot 109	None	None
Plot 110	None	None
Plot 114	None	None
Plot 117	Updated plot markings	None
Plot 123	None	None
Plot 402	Updated plot markings	None
Expanded Program Plots		
Plot 1	Not visited	None
Plot 2	Not visited	None
Plot 5	Not visited	None
Plot 6	Not visited	None
Plot 7	Not visited	None
Plot 8	Not visited	None
Plot 9	Not visited	None
Plot 12	Not visited	None
Plot 13	Not visited	None
Plot 14	Not visited	None
Plot 15	Not visited	None
Plot 16	Not visited	None
Plot 26	Not visited	None
Plot 27	Not visited	None
Plot 28	Not visited	None
Plot 29	Not visited	None
Plot 80	Not visited	None
Plot 81	Not visited	None
Plot 102	Not visited	None
Plot 103	Not visited	None
Plot 104	Not visited	None
Plot 121	Not visited	None

TABLE 1b

Plot Maintenance

Veolia

W ½ 06-067-08 W5M

Sample Point	Maintenance Completed 2023	Maintenance Required
Moss Bag Plots		
MB1	None	None
MB2	None	None
MB4	None	None
MB5	None	None
MB9	None	None
MB11	None	None
MB14	None	None
MB15	None	None
MB19	None	None
MB20	None	None
MB22	None	None
MB24	None	None
MB26	None	None
MB50	None	None
MB71	None	Need to relocate plot 71-3

TABLE 1c

Analytical Methods

Veolia

W ½ 06-067-08 W5M

Parameter	Analytical Method
Moss	
Metals	Extracted using "Metals in Animal Tissue and Vegetation (Biota) - Prescriptive" Method/Analyzed using USEPA 200.3/6020A[2]
Mercury	Extracted using "Metals in Animal Tissue and Vegetation (Biota) - Prescriptive" Method/Analyzed using USEPA 200.3, 245.7
pH	Saturated Paste Extract
EC	Saturated Paste Extract
PCBs (HRMS)	USEPA 1668C[1]
PCDD/PCDF	USEPA 1613B
Labrador Tea	
Metals	Extracted using "Metals in Animal Tissue and Vegetation (Biota) - Prescriptive" Method/Analyzed using USEPA 200.3/6020A[2]
Mercury	Extracted using "Metals in Animal Tissue and Vegetation (Biota) - Prescriptive" Method/Analyzed using USEPA 200.3, 245.7
Nitrogen	Total Nitrogen by combustion
PCBs (HRMS)	USEPA 1668C[1]
PCDD/PCDF	USEPA 1613B

[1] Where the PCB 126 and 169 peaks appeared to be broader then expected on the chromatogram the sample extract was passed through a carbon column to better resolve the co-planar PCB fraction

[2] Collision cell interface was used on ICPMS

TABLE 2

Live Moss Quality Results - PCB Congeners (HRMS Method), PCDDs and PCDFs

Veolia

W ½ 06-067-08 W5M

Sample Point		Plot 4	Plot 11	Plot 70	Plot 71	Plot 109	Plot 110	Plot 114	Plot 117	Plot 123	Plot 402
Sample Date		19-Jun-23	29-Jun-23	19-Jun-23	19-Jun-23	20-Jun-23	20-Jun-23	20-Jun-23	20-Jun-23	19-Jun-23	20-Jun-23
MSI Sample Number	Unit	15867230619003	15867230629012	15867230619001	15867230619004	15867230620007	15867230620009	15867230620006	15867230620005	15867230619002	15867230620010
PCB Congeners											
Total PCB Congeners	mg/kg	0.159	0.0236	0.0000653	0.0000748	0.0684	0.00237	0.0363	0.00547	0.00143	0.000267
Lower Bound PCB TEQ	ng/kg	20.8	3.59	0	0.000111	8.52	0.332	3.63	0.569	0.00554	0.000845
Mid Point PCB TEQ	ng/kg	20.8	3.65	0.127	0.00956	8.52	0.333	3.7	0.579	0.222	0.131
Upper Bound PCB TEQ	ng/kg	20.8	3.65	0.255	0.019	8.52	0.333	3.7	0.579	0.222	0.262
PCDDs											
2,3,7,8-Tetra CDD	ng/kg	<0.068	<0.046	<0.059	<0.066	0.065	<0.034	<0.045	<0.051	<0.019	<0.038
1,2,3,7,8-Penta CDD	ng/kg	0.17	0.067	<0.053	<0.085	0.21	<0.062	0.159	<0.085	<0.049	<0.062
1,2,3,4,7,8-Hexa CDD	ng/kg	0.32	0.085	0.051	<0.10	0.308	<0.066	0.2	<0.086	<0.027	<0.13
1,2,3,6,7,8-Hexa CDD	ng/kg	0.61	0.23	0.083	<0.093	0.69	<0.066	0.574	0.19	<0.028	<0.12
1,2,3,7,8,9-Hexa CDD	ng/kg	0.44	0.15	0.046	<0.096	0.7	<0.064	0.23	0.137	<0.027	<0.12
1,2,3,4,6,7,8-Hepta CDD	ng/kg	6.7	2.77	0.77	0.39	8.45	1.09	5.04	2.43	0.633	0.45
1,2,3,4,6,7,8,9-Octa CDD	ng/kg	29.1	10.8	4.8	2.5	25	4.41	19	13.7	2.72	3.33
Total Tetra CDD	ng/kg	<0.068	<0.046	<0.059	<0.066	0.223	0.153	<0.045	<0.051	<0.019	0.12
Total TetraCDD Homologues	-	0	0	0	0	3	2	0	0	0	1
Total Penta CDD	ng/kg	1.03	0.301	<0.053	<0.085	1.32	<0.062	2.11	0.177	0.127	<0.062
Total PentaCDD Homologues	-	3	2	0	0	5	0	5	1	1	0
Total Hexa CDD	ng/kg	4.79	3.13	0.385	<0.10	7.37	0.591	5.63	1.86	0.297	<0.13
Total HexaCDD Homologues	-	4	4	2	0	6	2	4	4	1	0
Total Hepta CDD	ng/kg	14.1	2.77	<0.18	0.6	16.9	1.09	11.2	4.82	1.43	0.74
Total HeptaCDD Homologues	-	2	1	0	1	2	1	2	2	2	1
PCDFs											
2,3,7,8-Tetra CDF	ng/kg	5.69	1.8	0.093	<0.027	2.41	0.409	0.93	0.251	0.16	0.096
1,2,3,7,8-Penta CDF	ng/kg	1.07	0.437	<0.064	<0.077	0.57	0.092	0.305	<0.055	0.048	<0.053
2,3,4,7,8-Penta CDF	ng/kg	2.23	0.85	<0.065	<0.080	1.22	0.17	0.57	0.19	0.11	<0.055
1,2,3,4,7,8-Hexa CDF	ng/kg	1.08	0.39	0.046	<0.028	0.899	0.1	0.43	0.18	0.04	<0.063
1,2,3,6,7,8-Hexa CDF	ng/kg	0.741	0.286	<0.040	<0.030	0.704	<0.041	0.485	0.189	0.071	<0.063
1,2,3,7,8,9-Hexa CDF	ng/kg	0.22	0.1	<0.058	<0.044	0.262	<0.065	<0.10	<0.057	<0.053	<0.093
2,3,4,6,7,8-Hexa CDF	ng/kg	0.967	0.37	<0.041	0.045	0.942	0.059	0.685	0.265	0.064	<0.063
1,2,3,4,6,7,8-Hepta CDF	ng/kg	3.47	1.33	0.14	<0.058	3.95	0.451	2.5	1	0.15	<0.16
1,2,3,4,7,8,9-Hepta CDF	ng/kg	0.36	0.32	0.059	<0.097	0.44	0.109	0.3	<0.11	<0.083	<0.20
1,2,3,4,6,7,8,9-Octa CDF	ng/kg	3.41	1.59	0.54	0.13	3.62	<0.47	2.88	1.1	0.19	<0.28
Total Tetra CDF	ng/kg	22.5	7.36	<0.049	0.038	10.5	0.664	2.76	0.557	0.227	0.115
Total TetraCDF Homologues	-	13	13	0	1	12	3	7	3	2	1
Total Penta CDF	ng/kg	15.6	4.27	<0.065	<0.080	8.34	0.695	3.07	0.244	0.192	<0.055
Total PentaCDF Homologues	-	9	7	0	0	9	3	7	1	2	0
Total Hexa CDF	ng/kg	6.81	0.344	0.219	<0.044	4.55	0.349	3.97	0.454	0.226	<0.093
Total HexaCDF Homologues	-	8	2	2	0	10	2	9	2	2	0
Total Hepta CDF	ng/kg	4.02	1.65	0.145	<0.097	3.95	0.666	3.4	<0.11	0.241	<0.20
Total HeptaCDF Homologues	-	2	2	1	0	1	3	3	0	2	0
Lower Bound PCDD/PCDF TEQ	ng/kg	1.75	0.27	0.0128	0	1.19	0.0587	0.428	0.113	0.0487	0.000999
Mid Point PCDD/PCDF TEQ	ng/kg	2.06	0.77	0.117	0.121	1.49	0.192	0.805	0.293	0.118	0.109
Upper Bound PCDD/PCDF TEQ	ng/kg	2.06	0.77	0.19	0.23	1.49	0.255	0.833	0.37	0.159	0.202
Total TEQ	ng/kg	22.86	4.42	0.244	0.13056	10.01	0.525	4.505	0.872	0.34	0.24

Notes:

TEQ - toxic equivalency quotient

TABLE 3

Historical Live Moss Quality Results - Organic Parameters

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	Total Aroclors mg/kg	PCB Concentration (Congeners) mg/kg	PCB TEQ ng TEQ/kg[1]	PCDD/PCDF TEQ ng TEQ/kg[1]	Total TEQ ng TEQ/kg[1]
Plot 4	26-Aug-03	1.6	---	---	130	---
Plot 4	1-Sep-04	1.8	---	---	93.7	---
Plot 4	30-Aug-05	1.3	0.24	55.75	40	95.75
Plot 4	16-May-06	1.6	1.9	198.99	74	272.99
Plot 4	5-Jun-07	1.1	0.77	120.73	37	157.73
Plot 4	15-May-08	0.82	0.96	122.8	84.09	206.89
Plot 4	1-Jun-08	---	0.96	131.22	91.35	222.57
Plot 4	12-Jun-09	2.11	1.05	170.41	60.47	230.88
Plot 4	18-Jul-09	2.2	0.861	94.36	23.77	118.13
Plot 4	25-May-10	1.4	1.95	131.89	42.38	174.27
Plot 4	31-May-11	1.34	1.73	128	29.1	157.1
Plot 4	1-Jun-12	0.6	1.62	192	39.17	231.17
Plot 4	5-Jun-13	1.63	1.98	216	61.78	277.78
Plot 4	29-May-14	0.427	0.336	46.8	68.6	115.4
Plot 4	3-Jun-15	1.39	0.983	112	26.4	138.4
Plot 4	31-May-16	---	0.436	43.5	10.3	53.8
Plot 4	31-May-17	---	0.875	105	26.7	131.7
Plot 4	29-May-18	---	1.09	136	34.4	170.4
Plot 4	31-May-19	0.346	0.862	101	29	130
Plot 4	3-Jun-20	---	0.43	50.3	8.45	58.75
Plot 4	8-Jun-22	---	0.221	23.8	5.69	29.49
Plot 4	19-Jun-23	---	0.159	20.8	2.06	22.86
Plot 11	26-Aug-03	0.19	---	---	25.5	---
Plot 11	31-Aug-04	0.16	---	---	16.9	---
Plot 11	31-Aug-05	0.14	0.11	15.88	11	26.88
Plot 11	16-May-06	0.19	0.11	21.36	17	38.36
Plot 11	5-Jun-07	0.14	0.17	20.34	13	33.34
Plot 11	14-May-08	0.14	0.14	23.31	15.33	38.64
Plot 11	1-Jun-08	---	0.14	23.57	17.76	41.33
Plot 11	12-Jun-09	0.15	0.0645	12.4	8.81	21.21
Plot 11	18-Jul-09	0.085	0.0932	9.81	8.41	18.22
Plot 11	26-May-10	0.081	0.187	22.36	14.49	36.85
Plot 11	31-May-11	0.085	0.193	20.3	8.38	28.68
Plot 11	1-Jun-12	<0.050	0.169	23.8	12.39	36.19
Plot 11	5-Jun-13	0.138	0.144	19.4	6.98	26.38
Plot 11	31-May-14	<0.050	0.0167	2.33	11.3	13.63
Plot 11	3-Jun-15	<0.050	0.117	17.9	11.1	29
Plot 11	31-May-16	---	0.0262	3.05	1.38	4.43
Plot 11	1-Jun-17	---	0.0742	9.23	7.65	16.88
Plot 11	31-May-18	---	0.0559	7.2	3.07	10.27
Plot 11	1-Jun-19	<0.050	0.0508	6.82	4	10.82
Plot 11	2-Jun-20	---	0.0288	3.44	0.969	4.409
Plot 11	8-Jun-22	---	0.017	1.29	0.643	1.933
Plot 11	29-Jun-23	---	0.0236	3.65	0.77	4.42

TABLE 3

Historical Live Moss Quality Results - Organic Parameters

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	Total Aroclors mg/kg	PCB Concentration (Congeners) mg/kg	PCB TEQ ng TEQ/kg[1]	PCDD/PCDF TEQ ng TEQ/kg[1]	Total TEQ ng TEQ/kg[1]
Plot 28	30-Aug-04	<0.01	---	---	---	---
Plot 28	12-Jun-09	<0.010	---	---	---	---
Plot 28	5-Jun-13	<0.050	0.0118	1.2	1.17	2.37
Plot 28	30-May-14	<0.050	---	---	---	---
Plot 28	3-Jun-15	<0.050	0.00604	1.48	0.699	2.179
Plot 70	26-Aug-03	<0.02	---	---	1.16	---
Plot 70	30-Aug-04	<0.01	---	---	3.03	---
Plot 70	31-Aug-05	<0.02	0.0074	0.05	0.24	0.29
Plot 70	17-May-06	<0.01	0.0021	0.02	0.5	0.52
Plot 70	5-Jun-07	<0.01	0.0017	0.01	0.49	0.5
Plot 70	14-May-08	<0.01	0.0013	1.69	0.32	2.01
Plot 70	1-Jun-08	---	0.0013	1.49	0.34	1.83
Plot 70a	12-Jun-09	<0.010	0.00129	0.09	0.69	0.78
Plot 70a	19-Jul-09	<0.0010	0.0243	0.01	1.83	1.84
Plot 70	25-May-10	<0.050	0.00203	0.01	1.45	1.46
Plot 70	31-May-11	<0.050	0.00359	0.01	1.2	1.21
Plot 70	1-Jun-12	<0.050	0.000772	0.01	0.78	0.79
Plot 70	5-Jun-13	<0.050	0.00311	0.01	0.94	0.95
Plot 70	31-May-14	<0.050	0.000963	0.00294	5.37	5.37294
Plot 70	4-Jun-15	<0.050	0.000506	0.155	0.459	0.614
Plot 70	2-Jun-16	---	0.000131	0.0598	0.148	0.2078
Plot 70	1-Jun-17	---	0.000137	0.0264	0.272	0.2984
Plot 70	31-May-18	---	0.000521	0.0469	0.354	0.4009
Plot 70	1-Jun-19	<0.050	0.000455	0.0564	0.623	0.6794
Plot 70	2-Jun-20	---	0.000203	0.0241	0.12	0.1441
Plot 70	7-Jun-22	---	0.000136	0.0177	0.22	0.2377
Plot 70	19-Jun-23	---	0.0000653	0.127	0.117	0.244
Plot 71	26-Aug-03	<0.02	---	---	0.62	---
Plot 71	2-Sep-04	<0.01	---	---	2.92	---
Plot 71	31-Aug-05	<0.02	0.0037	0.02	0.65	0.67
Plot 71	16-May-06	<0.01	0.0012	0	0.48	0.48
Plot 71	5-Jun-07	<0.01	0.0012	0.01	0.35	0.36
Plot 71	14-May-08	<0.01	0.004	1.49	0.72	2.21
Plot 71	1-Jun-08	---	0.004	1.21	0.6	1.81
Plot 71	12-Jun-09	<0.010	0.000847	ND	0.42	0.42
Plot 71	17-Jul-09	<0.0010	0.00249	ND	0.32	0.32
Plot 71	25-May-10	<0.050	0.00228	0.01	0.85	0.86
Plot 71	31-May-11	<0.050	0.0017	ND	0.23	0.23
Plot 71	1-Jun-12	<0.050	<0.00001	ND	0.76	0.76
Plot 71	5-Jun-13	<0.050	0.00215	0.01	0.21	0.22
Plot 71	31-May-14	<0.050	0.00023	0.000404	0.717	0.717404
Plot 71	4-Jun-15	<0.050	0.000954	0.232	0.461	0.693
Plot 71	2-Jun-16	---	0.000135	0.0255	0.26	0.2855
Plot 71	1-Jun-17	---	0.000291	0.0489	0.208	0.2569
Plot 71	31-May-18	---	0.000118	0.027	0.13	0.157
Plot 71	1-Jun-19	<0.050	0.000283	0.0332	0.194	0.2272
Plot 71	4-Jun-20	---	0.000142	0.0211	0.227	0.2481
Plot 71	6-Jun-22	---	0.00019	0.0113	0.133	0.1443
Plot 71	19-Jun-23	---	0.0000748	0.00956	0.121	0.13056

TABLE 3

Historical Live Moss Quality Results - Organic Parameters

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	Total Aroclors mg/kg	PCB Concentration (Congeners) mg/kg	PCB TEQ ng TEQ/kg[1]	PCDD/PCDF TEQ ng TEQ/kg[1]	Total TEQ ng TEQ/kg[1]
Plot 109	26-Aug-03	0.41	---	---	53.5	---
Plot 109	2-Sep-04	0.34	---	---	34.2	---
Plot 109	31-Aug-05	0.49	0.15	26.92	23	49.92
Plot 109	16-May-06	0.33	0.36	47.11	28	75.11
Plot 109	5-Jun-07	0.51	0.27	40.5	15	55.5
Plot 109	14-May-08	0.47	0.5	63.75	53.77	117.52
Plot 109	1-Jun-08	---	0.5	67.18	58.91	126.09
Plot 109	12-Jun-09	0.344	0.274	46.16	30.25	76.41
Plot 109	18-Jul-09	0.36	0.466	46.78	37.55	84.33
Plot 109	26-May-10	0.463	0.595	56.08	22.93	79.01
Plot 109	31-May-11	0.534	0.759	50.3	21.89	72.19
Plot 109	1-Jun-12	0.226	0.61	55.7	23.24	78.94
Plot 109	5-Jun-13	0.474	0.724	82	27.5	109.5
Plot 109	30-May-14	0.612	0.236	24	51.9	75.9
Plot 109	4-Jun-15	0.747	0.543	49	26.2	75.2
Plot 109	31-May-16	---	0.164	14.8	5.06	19.86
Plot 109	31-May-17	---	0.506	53	28.5	81.5
Plot 109	30-May-18	---	0.754	80.6	70.7	151.3
Plot 109	30-May-19	0.228	0.348	37.4	21.4	58.8
Plot 109	3-Jun-20	---	0.21	22.9	6.03	28.93
Plot 109	7-Jun-22	---	0.0919	7.74	2.72	10.46
Plot 109	20-Jun-23	---	0.0684	8.52	1.49	10.01
Plot 110	26-Aug-03	0.07	---	---	10.4	---
Plot 110	31-Aug-04	0.04	---	---	7.07	---
Plot 110	31-Aug-05	0.03	0.035	25.32	0.29	25.61
Plot 110	16-May-06	0.06	0.042	4.84	8.8	13.64
Plot 110	5-Jun-07	0.03	0.027	0.44	3.6	4.04
Plot 110	14-May-08	0.02	0.037	5.3	4.57	9.87
Plot 110	1-Jun-08	---	0.037	5.1	5.7	10.8
Plot 110	12-Jun-09	0.031	0.0204	3.44	3.86	7.3
Plot 110	18-Jul-09	0.041	0.0316	2.65	3.35	6
Plot 110	26-May-10	<0.050	0.0657	5.17	4.6	9.77
Plot 110	31-May-11	<0.050	0.052	3.85	4.88	8.73
Plot 110	1-Jun-12	<0.050	0.0342	5.22	4.63	9.85
Plot 110	4-Jun-13	<0.050	0.0376	3.67	3.18	6.85
Plot 110	30-May-14	<0.050	0.00629	0.72	6.28	7
Plot 110	4-Jun-15	<0.050	0.015	1.74	1.64	3.38
Plot 110	31-May-16	---	0.00455	0.441	0.695	1.136
Plot 110	31-May-17	---	0.0169	1.85	3.13	4.98
Plot 110	30-May-18	---	0.0133	1.5	1.37	2.87
Plot 110	30-May-19	<0.050	0.0101	1.24	1.71	2.95
Plot 110	3-Jun-20	---	0.00351	0.429	0.378	0.807
Plot 110	7-Jun-22	---	0.00263	0.255	0.307	0.562
Plot 110	20-Jun-23	---	0.00237	0.333	0.192	0.525

TABLE 3

Historical Live Moss Quality Results - Organic Parameters

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	Total Aroclors mg/kg	PCB Concentration (Congeners) mg/kg	PCB TEQ ng TEQ/kg[1]	PCDD/PCDF TEQ ng TEQ/kg[1]	Total TEQ ng TEQ/kg[1]
Plot 114	26-Aug-03	0.19	---	---	17.4	---
Plot 114	31-Aug-04	0.3	---	---	14.5	---
Plot 114	30-Aug-05	0.2	0.11	17.82	3.8	21.62
Plot 114	15-May-06	0.11	0.21	29.82	8.1	37.92
Plot 114	4-Jun-07	0.21	0.69	44.42	14	58.42
Plot 114	14-May-08	0.16	0.097	12.69	3.43	16.12
Plot 114	1-Jun-08	---	0.097	13.35	4.1	17.45
Plot 114	12-Jun-09	0.377	0.19	23.44	12.99	36.43
Plot 114	18-Jul-09	0.21	0.217	20.94	4.37	25.31
Plot 114	26-May-10	0.172	0.349	30.65	9.18	39.83
Plot 114	31-May-11	0.249	0.497	35.6	12.57	48.17
Plot 114	1-Jun-12	0.123	0.235	24.5	9.09	33.59
Plot 114	4-Jun-13	0.052	0.378	32.8	8.92	41.72
Plot 114	31-May-14	0.283	0.0874	10.2	21	31.2
Plot 114	4-Jun-15	0.201	0.17	19	8.02	27.02
Plot 114	1-Jun-16	---	0.127	8.95	3.82	12.77
Plot 114	31-May-17	---	0.0643	6.04	3.43	9.47
Plot 114	30-May-18	---	0.202	19.8	8.49	28.29
Plot 114	31-May-19	0.079	0.135	14.8	9.13	23.93
Plot 114	3-Jun-20	---	0.0364	4.81	0.689	5.499
Plot 114	7-Jun-22	---	0.041	2.98	0.949	3.929
Plot 114	20-Jun-23	---	0.0363	3.7	0.805	4.505
Plot 117	26-Aug-03	0.05	---	---	5.95	---
Plot 117	31-Aug-04	0.04	---	---	5.42	---
Plot 117	30-Aug-05	0.06	0.039	4.5	1.8	6.3
Plot 117	15-May-06	0.11	0.058	8.46	3.6	12.06
Plot 117	4-Jun-07	0.11	0.045	7.03	2.7	9.73
Plot 117	14-May-08	0.04	0.033	6.01	1.68	7.69
Plot 117	1-Jun-08	---	0.033	5.81	1.89	7.7
Plot 117	12-Jun-09	0.071	0.0365	6.7	1.66	8.36
Plot 117	18-Jul-09	0.086	0.0509	4.61	2.79	7.4
Plot 117	26-May-10	<0.050	0.0701	6.76	1.24	8
Plot 117	31-May-11	<0.050	0.137	10.3	4.28	14.58
Plot 117	1-Jun-12	<0.050	0.0353	0.19	1.27	1.46
Plot 117	4-Jun-13	<0.050	0.0997	10.2	3.13	13.33
Plot 117	31-May-14	<0.050	0.0125	0.0451	3.97	4.0151
Plot 117	4-Jun-15	<0.050	0.0657	5.86	6.26	12.12
Plot 117	1-Jun-16	---	0.0159	1.44	0.697	2.137
Plot 117	31-May-17	---	0.0363	3.8	2.36	6.16
Plot 117	30-May-18	---	0.0257	2.82	1.51	4.33
Plot 117	31-May-19	<0.050	0.0284	3.29	1.94	5.23
Plot 117	3-Jun-20	---	0.00632	0.741	0.221	0.962
Plot 117	7-Jun-22	---	0.00441	0.319	0.177	0.496
Plot 117	20-Jun-23	---	0.00547	0.579	0.293	0.872

TABLE 3

Historical Live Moss Quality Results - Organic Parameters

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	Total Aroclors mg/kg	PCB Concentration (Congeners) mg/kg	PCB TEQ ng TEQ/kg[1]	PCDD/PCDF TEQ ng TEQ/kg[1]	Total TEQ ng TEQ/kg[1]
Plot 123	26-Aug-03	0.02	---	---	2.69	---
Plot 123	30-Aug-04	<0.01	---	---	9.3	---
Plot 123	30-Aug-05	<0.02	0.0062	0.08	0.72	0.8
Plot 123	16-May-06	<0.01	0.014	1.89	2	3.89
Plot 123	5-Jun-07	0.02	0.011	1.67	2.2	3.87
Plot 123	14-May-08	0.01	0.015	3.34	1.43	4.77
Plot 123	1-Jun-08	---	0.015	2.88	1.71	4.59
Plot 123	12-Jun-09	<0.010	0.0107	2.05	1.37	3.42
Plot 123	18-Jul-09	<0.0010	0.0149	1.33	2.02	3.35
Plot 123	26-May-10	<0.050	0.0104	1.15	0.24	1.39
Plot 123	31-May-11	<0.050	0.0243	1.83	1.91	3.74
Plot 123	1-Jun-12	<0.050	0.00345	0.04	0.63	0.67
Plot 123	4-Jun-13	<0.050	0.0202	3.01	2.95	5.96
Plot 123	30-May-14	<0.050	0.000549	0.00199	1.78	1.78199
Plot 123	3-Jun-15	<0.050	0.0109	1.28	1.16	2.44
Plot 123	30-May-16	---	0.00398	0.455	0.303	0.758
Plot 123	31-May-17	---	0.00478	0.529	0.53	1.059
Plot 123	31-May-18	---	0.0106	1.2	0.496	1.696
Plot 123	30-May-19	<0.050	0.00316	0.379	0.361	0.74
Plot 123	2-Jun-20	---	0.0128	1.54	0.912	2.452
Plot 123	6-Jun-22	---	0.00244	0.318	0.124	0.442
Plot 123	19-Jun-23	---	0.00143	0.222	0.118	0.34
Plot 402	26-Aug-03	<0.02	---	---	0.788	---
Plot 402	1-Sep-04	<0.01	---	---	1.32	---
Plot 402	30-Aug-05	<0.02	0.0049	0.03	0.85	0.88
Plot 402	16-May-06	<0.01	0.0053	0.06	0.49	0.55
Plot 402	5-Jun-07	<0.01	0.0023	0.04	0.44	0.48
Plot 402	14-May-08	<0.01	0.0064	1.52	0.54	2.06
Plot 402	1-Jun-08	---	0.0064	1.31	0.57	1.88
Plot 402	12-Jun-09	<0.010	0.00203	0.01	0.37	0.38
Plot 402	17-Jul-09	<0.0010	0.00569	0.21	0.73	0.94
Plot 402	25-May-10	<0.050	0.00273	0.39	0.41	0.8
Plot 402	31-May-11	<0.050	0.00393	0.38	0.23	0.61
Plot 402	1-Jun-12	<0.050	0.00106	1.33	1.4	2.73
Plot 402	4-Jun-13	<0.050	0.00682	0.02	0.54	0.56
Plot 402	30-May-14	<0.050	0.000678	0.00191	1.19	1.19191
Plot 402	4-Jun-15	<0.050	0.00194	0.236	1.03	1.266
Plot 402	30-May-16	---	0.000675	0.078	0.136	0.214
Plot 402	31-May-17	---	0.0013	0.132	0.213	0.345
Plot 402	29-May-18	---	0.00144	0.157	0.29	0.447
Plot 402	30-May-19	<0.050	0.00139	0.159	0.372	0.531
Plot 402	2-Jun-20	---	0.00188	0.274	0.318	0.592
Plot 402	6-Jun-22	---	0.00172	0.227	0.209	0.436
Plot 402	20-Jun-23	---	0.000267	0.131	0.109	0.24

Notes:

ND - results reported as zero in lab report

[1] - midpoint estimate used for TEQ

TABLE 4

Labrador Tea Leaves Quality Results - Metals

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	MSI Sample Number	Al %	Al mg/kg	Sb mg/kg	As mg/kg	Ba mg/kg	Be mg/kg	B mg/kg	Cd mg/kg	Cr mg/kg	Co mg/kg	Cu mg/kg	Fe mg/kg	Pb mg/kg	Li mg/kg	Mn mg/kg	Hg mg/kg	Mo mg/kg	Ni mg/kg	Se mg/kg	Ag mg/kg	Sr mg/kg	Tl mg/kg	Sn mg/kg	Ti mg/kg	U mg/kg	V mg/kg	Zn mg/kg	Zr mg/kg
Plot 4	19-Jun-23	15867230619103	0.0121	121	0.043	0.079	111	<0.010	26.8	0.0171	0.184	0.069	3.67	136	0.317	<0.50	944	0.0243	0.046	0.59	<0.050	<0.0050	6.05	0.0426	<0.10	2.62	0.0045	0.2	41	<0.20
Plot 11	29-Jun-23	15867230629112	0.0100	99.7	<0.010	0.033	105	<0.010	27.2	0.014	0.099	0.045	3.53	93.1	0.09	<0.50	1110	0.0218	0.02	0.49	<0.050	<0.0050	6.89	0.0092	<0.10	1.34	0.0037	0.12	32.9	<0.20
Plot 70	19-Jun-23	15867230619101	0.0090	89.5	0.012	0.022	97.7	<0.010	18.9	0.0083	0.107	0.033	3.21	76.6	0.062	<0.50	1320	0.0157	<0.020	0.4	<0.050	<0.0050	4.05	0.0162	<0.10	1.04	0.0024	<0.10	30.3	<0.20
Plot 71	19-Jun-23	15867230619104	0.0066	66	<0.010	0.029	119	<0.010	25.3	0.0123	0.091	0.043	2.38	72.2	0.057	<0.50	1350	0.0227	0.021	0.43	<0.050	<0.0050	8.45	0.0512	<0.10	1.55	0.0027	<0.10	25.3	<0.20
Plot 109	20-Jun-23	15867230620107	0.0072	72	<0.010	<0.020	102	<0.010	17.7	0.0089	0.074	0.03	2.7	57.7	0.089	<0.50	587	0.0165	0.035	0.98	<0.050	<0.0050	5.29	0.0575	<0.10	0.75	<0.0020	<0.10	22.5	<0.20
Plot 110	20-Jun-23	15867230620109	0.0082	81.6	<0.010	0.024	102	<0.010	23.9	0.0085	0.097	0.05	3.24	83.2	0.066	<0.50	970	0.0188	<0.020	0.65	<0.050	<0.0050	8.28	0.0045	<0.10	1.58	0.002	<0.10	28.8	<0.20
Plot 114	20-Jun-23	15867230620106	0.0098	97.8	<0.010	0.041	82.7	<0.010	22.9	0.0181	0.134	0.109	3.71	86.1	0.24	<0.50	551	0.0225	0.026	1.52	<0.050	<0.0050	6.5	0.0086	<0.10	1.59	0.0025	0.11	26.8	<0.20
Plot 117	20-Jun-23	15867230620105	0.0103	103	<0.010	<0.020	96.4	<0.010	19.4	0.0123	0.085	0.094	3.58	78.5	0.072	<0.50	693	0.0182	<0.020	1.31	<0.050	<0.0050	9.03	0.0035	<0.10	1.53	0.0021	<0.10	25.4	<0.20
Plot 123	19-Jun-23	15867230619102	0.0071	71.3	<0.010	<0.020	109	<0.010	18.4	0.0114	0.093	0.043	3.04	65.9	0.057	<0.50	1350	0.014	<0.020	1	<0.050	<0.0050	6.11	<0.0020	<0.10	1.04	0.002	<0.10	23.2	<0.20
Plot 402	20-Jun-23	15867230620110	0.0094	93.5	<0.010	0.026	95.4	<0.010	26.1	0.0104	0.108	0.051	3.41	91.3	0.057	<0.50	949	0.0191	<0.020	0.49	<0.050	<0.0050	12.3	0.0076	<0.10	1.7	0.0026	0.12	29.4	<0.20

TABLE 5

Labrador Tea Leaves Quality Results - Macronutrients

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	MSI Sample Number	N %	Ca mg/kg	Mg mg/kg	K mg/kg	Na mg/kg	P mg/kg	S mg/kg
Plot 4	19-Jun-23	15867230619103	1.59	7190	1570	3920	51	1270	1230
Plot 11	29-Jun-23	15867230629112	1.53	7380	1740	4610	<20	1100	1190
Plot 70	19-Jun-23	15867230619101	1.48	6430	1400	3640	33	1150	1210
Plot 71	19-Jun-23	15867230619104	1.04	6420	1440	3480	<20	860	886
Plot 109	20-Jun-23	15867230620107	1.28	6400	1440	3980	<20	970	1080
Plot 110	20-Jun-23	15867230620109	1.46	7340	1750	4160	<20	1150	1150
Plot 114	20-Jun-23	15867230620106	1.43	5570	1650	4290	<20	1210	1190
Plot 117	20-Jun-23	15867230620105	1.58	7990	1670	3750	<20	1210	1220
Plot 123	19-Jun-23	15867230619102	1.4	6800	1430	4120	<20	1110	1150
Plot 402	20-Jun-23	15867230620110	1.37	7280	1730	4800	<20	1240	1340

TABLE 6

Labrador Tea Leaves Quality Results - PCB Congeners (HRMS Method), PCDDs and PCDFs

Veolia

W ½ 06-067-08 W5M

Sample Point		Plot 4	Plot 11	Plot 70	Plot 71	Plot 109	Plot 110	Plot 114	Plot 117	Plot 123	Plot 402
Sample Date		19-Jun-23	29-Jun-23	19-Jun-23	19-Jun-23	20-Jun-23	20-Jun-23	20-Jun-23	20-Jun-23	19-Jun-23	20-Jun-23
MSI Sample Number	Unit	15867230619103	15867230629112	15867230619101	15867230619104	15867230620107	15867230620109	15867230620106	15867230620105	15867230619102	15867230620110
PCB Congeners											
Total PCB Congeners	mg/kg	0.0683	0.0113	0.00159	0.00131	0.0378	0.0034	0.0202	0.00777	0.00176	0.000725
Lower Bound PCB TEQ	ng/kg	9.98	2.14	0.000423	0.00104	4.37	0.268	0.06	0.0208	0.00224	0.00137
Mid Point PCB TEQ	ng/kg	10.1	2.2	0.419	0.259	4.44	0.296	1.11	0.867	0.214	0.332
Upper Bound PCB TEQ	ng/kg	10.2	2.25	0.837	0.517	4.51	0.323	2.13	1.42	0.423	0.662
PCDDs											
2,3,7,8-Tetra CDD	ng/kg	<6.5	<2.7	<4.1	<5.8	<2.3	<1.7	<3.0	<6.6	<4.6	<3.3
1,2,3,7,8-Penta CDD	ng/kg	<5.9	<3.5	<4.8	<6.9	<2.9	<1.6	<3.8	<6.9	<5.0	<2.7
1,2,3,4,7,8-Hexa CDD	ng/kg	<5.0	<3.3	<4.1	<6.4	<3.0	<1.5	<3.0	<4.8	<4.2	<2.8
1,2,3,6,7,8-Hexa CDD	ng/kg	<5.4	<3.5	<3.9	<6.4	<3.0	<1.6	<3.0	<4.9	<4.5	<2.8
1,2,3,7,8,9-Hexa CDD	ng/kg	<5.2	<3.3	<3.9	<6.3	<3.0	<1.5	<3.0	<4.8	<4.3	<2.8
1,2,3,4,6,7,8-Hepta CDD	ng/kg	<6.5	<4.1	<5.3	<6.2	<2.8	<2.0	<2.9	<4.9	<5.1	<2.5
1,2,3,4,6,7,8,9-Octa CDD	ng/kg	16	<10	16	11	<4.2	<4.3	<8.0	14	11	<6.2
Total Tetra CDD	ng/kg	<6.5	<2.7	<4.1	<5.8	<2.3	<1.7	<3.0	<6.6	<4.6	<3.3
Total TetraCDD Homologues	-	0	0	0	0	0	0	0	0	0	0
Total Penta CDD	ng/kg	<5.9	<3.5	<4.8	<6.9	<2.9	<1.6	<3.8	<6.9	<5.0	<2.7
Total PentaCDD Homologues	-	0	0	0	0	0	0	0	0	0	0
Total Hexa CDD	ng/kg	<5.4	<3.5	<4.1	<6.4	<3.0	<1.6	<3.0	<4.9	<4.5	<2.8
Total HexaCDD Homologues	-	0	0	0	0	0	0	0	0	0	0
Total Hepta CDD	ng/kg	<6.5	<4.1	<5.3	<6.2	<2.8	<2.0	<2.9	<4.9	<5.1	<2.5
Total HeptaCDD Homologues	-	0	0	0	0	0	0	0	0	0	0
PCDFs											
2,3,7,8-Tetra CDF	ng/kg	<4.5	<2.5	<3.9	<4.7	<1.9	<1.4	<2.6	<4.4	<5.2	<2.1
1,2,3,7,8-Penta CDF	ng/kg	<4.2	<2.5	<2.5	<3.2	<1.7	<0.87	<1.4	<3.8	<2.6	<1.8
2,3,4,7,8-Penta CDF	ng/kg	<4.0	<2.3	<2.5	<3.3	<1.6	<0.84	<1.4	<3.6	<2.6	<1.8
1,2,3,4,7,8-Hexa CDF	ng/kg	<4.2	<1.5	<2.4	<3.0	<1.9	<1.1	<1.9	<5.1	<1.7	<1.9
1,2,3,6,7,8-Hexa CDF	ng/kg	<4.0	<1.4	<2.6	<3.1	<2.0	<0.93	<1.9	<5.1	<1.7	<1.9
1,2,3,7,8,9-Hexa CDF	ng/kg	<5.2	<2.3	<3.2	<4.0	<2.5	<1.4	<2.4	<6.7	<2.4	<2.7
2,3,4,6,7,8-Hexa CDF	ng/kg	<3.7	<1.6	<2.5	<3.0	<1.8	<1.1	<1.9	<4.6	<1.6	<2.0
1,2,3,4,6,7,8-Hepta CDF	ng/kg	<5.2	<3.0	<3.8	<3.0	3.2	<1.2	<1.9	<4.6	<2.8	<2.5
1,2,3,4,7,8,9-Hepta CDF	ng/kg	<7.0	<4.0	<4.6	<3.9	<2.6	<1.7	<2.4	<5.8	<3.5	<3.6
1,2,3,4,6,7,8,9-Octa CDF	ng/kg	<11	<4.0	<6.4	<8.7	<2.7	<3.9	<4.9	<8.4	<6.9	<4.2
Total Tetra CDF	ng/kg	<4.5	<2.5	<3.9	<4.7	<1.9	<1.4	<2.6	<4.4	<5.2	<2.1
Total TetraCDF Homologues	-	0	0	0	0	0	0	0	0	0	0
Total Penta CDF	ng/kg	4.6	<2.5	<2.5	<3.3	<1.7	0.87	1.8	<3.8	<2.6	<1.8
Total PentaCDF Homologues	-	1	0	0	0	0	1	1	0	0	0
Total Hexa CDF	ng/kg	<5.2	<2.3	<3.2	<4.0	<2.5	<1.4	<2.4	<6.7	<2.4	<2.7
Total HexaCDF Homologues	-	0	0	0	0	0	0	0	0	0	0
Total Hepta CDF	ng/kg	<7.0	<4.0	<4.6	<3.9	3.2	<1.7	<2.4	<5.8	<3.5	<3.6
Total HeptaCDF Homologues	-	0	0	0	0	1	0	0	0	0	0
Lower Bound PCDD/PCDF TEQ	ng/kg	0	0	0	0	0.0319	0	0	0	0	0.000
Mid Point PCDD/PCDF TEQ	ng/kg	8.82	4.51	6.26	8.81	3.88	2.34	4.65	9.45	6.57	4.29
Upper Bound PCDD/PCDF TEQ	ng/kg	17.6	9.02	12.5	17.6	7.73	4.68	9.31	18.9	13.1	8.58
Total TEQ	ng/kg	18.92	6.71	6.679	9.069	8.32	2.636	5.76	10.317	6.784	4.622

Notes:

TEQ - toxic equivalency quotient

TABLE 7

Historical Labrador Tea Leaves Quality Results - Organic Parameters

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	Total Aroclors mg/kg	PCB Concentrations (Congeners) mg/kg	PCB TEQ ng TEQ/kg[1]	PCDD/PCDF TEQ ng TEQ/kg[1]	Total TEQ ng TEQ/kg[1]
Plot 4	26-Aug-03	0.50	---	---	1.02	---
Plot 4	1-Sep-04	0.26	---	---	8.99	---
Plot 4	30-Aug-05	0.21	0.17	51.52	2.60	54.12
Plot 4	16-May-06	0.27	0.15	39.20	1.30	40.50
Plot 4	5-Jun-07	0.22	0.23	34.00	2.60	36.60
Plot 4	15-May-08	0.39	0.30	29.78	1.42	31.20
Plot 4	1-Jun-08	---	0.30	33.51	1.39	34.90
Plot 4	12-Jun-09	0.10	0.24	30.39	2.78	33.17
Plot 4	18-Jul-09	0.29	0.22	7.83	0.68	8.51
Plot 4	25-May-10	0.38	0.52	43.57	2.56	46.13
Plot 4	31-May-11	0.13	0.25	27.80	0.90	28.70
Plot 4	1-Jun-12	0.15	0.44	64.00	2.53	66.53
Plot 4	5-Jun-13	0.27	0.30	41.70	1.46	43.16
Plot 4	29-May-14	0.16	0.19	26.70	3.20	29.90
Plot 4	3-Jun-15	0.03	0.19	21.20	1.80	23.00
Plot 4	31-May-16	---	0.13	17.00	1.26	18.26
Plot 4	31-May-17	---	0.10	14.10	1.01	15.11
Plot 4	29-May-18	---	0.06	10.10	0.78	10.88
Plot 4	31-May-19	---	0.07	11.70	0.86	12.56
Plot 4	3-Jun-20	---	0.06	8.49	0.27	8.76
Plot 4	8-Jun-21	---	0.06	7.82	0.53	8.35
Plot 4	8-Jun-22	---	0.0349	3.45	0.79	4.24
Plot 4	19-Jun-23	---	0.0683	10.10	8.82	18.92
Plot 11	26-Aug-03	0.03	---	---	1.76	1.76
Plot 11	31-Aug-04	0.04	---	---	1.74	1.74
Plot 11	31-Aug-05	0.05	0.02	3.83	0.15	3.98
Plot 11	16-May-06	0.03	0.03	0.44	0.32	0.76
Plot 11	5-Jun-07	0.02	0.09	4.63	0.61	5.24
Plot 11	14-May-08	0.04	0.03	2.24	1.90	4.14
Plot 11	1-Jun-08	---	0.03	2.52	1.60	4.12
Plot 11	12-Jun-09	0.01	0.02	3.12	0.23	3.35
Plot 11	18-Jul-09	0.02	0.05	0.11	1.08	1.19
Plot 11	26-May-10	0.04	0.07	7.78	0.66	8.44
Plot 11	31-May-11	<0.010	0.05	3.87	0.48	4.35
Plot 11	1-Jun-12	0.02	0.02	0.19	0.95	1.14
Plot 11	5-Jun-13	0.02	0.02	3.41	0.23	3.64
Plot 11	31-May-14	0.03	0.02	3.58	0.52	4.10
Plot 11	3-Jun-15	<0.010	0.02	2.55	0.24	2.79
Plot 11	31-May-16	---	0.01	1.45	0.75	2.20
Plot 11	1-Jun-17	---	0.008	1.04	0.49	1.53
Plot 11	31-May-18	---	0.007	0.94	0.34	1.28
Plot 11	1-Jun-19	---	0.005	0.90	0.58	1.48
Plot 11	2-Jun-20	---	0.005	0.66	0.39	1.05
Plot 11	7-Jun-21	---	0.005	0.66	0.22	0.88
Plot 11	8-Jun-22	---	0.005	0.56	0.63	1.19
Plot 11	29-Jun-23	---	0.011	2.20	4.51	6.71

TABLE 7

Historical Labrador Tea Leaves Quality Results - Organic Parameters

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	Total Aroclors mg/kg	PCB Concentrations (Congeners) mg/kg	PCB TEQ ng TEQ/kg[1]	PCDD/PCDF TEQ ng TEQ/kg[1]	Total TEQ ng TEQ/kg[1]
Plot 28	30-Aug-04	<0.01	---	---	---	---
Plot 28	12-Jun-09	0.002	---	---	---	---
Plot 28	5-Jun-13	<0.010	0.003	0.02	0.20	0.22
Plot 28	30-May-14	0.01	---	---	---	---
Plot 28	3-Jun-15	<0.010	0.001	0.34	0.08	0.42
Plot 70	26-Aug-03	<0.02	---	---	0.48	---
Plot 70	30-Aug-04	<0.01	---	---	1.72	---
Plot 70	31-Aug-05	0.02	0.004	0.04	0.14	0.18
Plot 70	17-May-06	<0.01	0.003	0.01	0.61	0.62
Plot 70	5-Jun-07	<0.01	0.01	0.04	0.53	0.57
Plot 70	14-May-08	<0.01	0.004	0.01	0.28	0.29
Plot 70	1-Jun-08	---	0.004	0.02	0.29	0.31
Plot 70a	12-Jun-09	0.002	0.004	0.01	0.48	0.49
Plot 70a	19-Jul-09	<0.0010	0.003	ND	0.86	0.86
Plot 70	25-May-10	<0.0020	0.006	0.02	0.70	0.72
Plot 70	31-May-11	<0.010	0.003	0.01	0.13	0.14
Plot 70	1-Jun-12	<0.010	0.006	0.32	2.54	2.86
Plot 70	5-Jun-13	<0.010	0.002	ND	0.22	0.22
Plot 70	31-May-14	<0.010	0.0002	0.16	0.30	0.46
Plot 70	4-Jun-15	<0.010	0.0003	0.11	0.10	0.21
Plot 70	2-Jun-16	---	0.0001	0.01	0.13	0.14
Plot 70	1-Jun-17	---	0.0001	0.02	0.35	0.38
Plot 70	31-May-18	---	0.0003	0.01	0.27	0.28
Plot 70	1-Jun-19	---	0.0001	0.01	0.16	0.17
Plot 70	2-Jun-20	---	0.0002	0.03	0.51	0.54
Plot 70	8-Jun-21	---	0.0003	0.07	0.51	0.58
Plot 70	7-Jun-22	---	0.0004	0.10	0.57	0.68
Plot 70	19-Jun-23	---	0.0016	0.42	6.26	6.68
Plot 71	26-Aug-03	<0.02	---	---	ND	---
Plot 71	2-Sep-04	<0.01	---	---	2.13	---
Plot 71	31-Aug-05	<0.02	0.01	0.05	0.15	0.20
Plot 71	16-May-06	<0.01	0.003	ND	0.50	0.50
Plot 71	5-Jun-07	<0.01	0.03	0.03	0.30	0.33
Plot 71	14-May-08	<0.01	0.01	0.02	1.14	1.16
Plot 71	1-Jun-08	---	0.01	0.07	1.56	1.63
Plot 71	12-Jun-09	<0.0010	0.001	ND	0.16	0.16
Plot 71	17-Jul-09	<0.0010	0.03	0.01	0.66	0.67
Plot 71	25-May-10	<0.0020	0.003	0.01	0.63	0.64
Plot 71	31-May-11	<0.010	0.001	ND	0.16	0.16
Plot 71	1-Jun-12	<0.010	0.0002	ND	0.94	0.94
Plot 71	5-Jun-13	<0.010	0.0022	ND	0.20	0.20
Plot 71	31-May-14	<0.010	0.0002	0.11	0.53	0.64
Plot 71	4-Jun-15	<0.010	0.0001	0.10	0.09	0.19
Plot 71	2-Jun-16	---	0.00009	0.04	0.51	0.55
Plot 71	1-Jun-17	---	0.0002	0.02	0.38	0.40
Plot 71	31-May-18	---	0.0003	0.02	0.38	0.40
Plot 71	1-Jun-19	---	0.0002	0.08	1.14	1.22
Plot 71	4-Jun-20	---	0.00007	0.01	0.11	0.12
Plot 71	8-Jun-21	---	0.00144	0.29	0.67	0.96
Plot 71	6-Jun-22	---	0.00044	0.10	0.78	0.89
Plot 71	19-Jun-23	---	0.00131	0.26	8.81	9.07

TABLE 7

Historical Labrador Tea Leaves Quality Results - Organic Parameters

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	Total Aroclors mg/kg	PCB Concentrations (Congeners) mg/kg	PCB TEQ ng TEQ/kg[1]	PCDD/PCDF TEQ ng TEQ/kg[1]	Total TEQ ng TEQ/kg[1]
Plot 109	26-Aug-03	0.10	---	---	0.73	---
Plot 109	2-Sep-04	0.15	---	---	1.47	---
Plot 109	31-Aug-05	0.06	0.03	4.83	0.48	5.31
Plot 109	16-May-06	0.09	0.08	9.45	1.30	10.75
Plot 109	5-Jun-07	0.10	0.13	10.29	0.43	10.72
Plot 109	14-May-08	0.12	0.15	11.06	2.53	13.59
Plot 109	1-Jun-08	---	0.15	12.45	3.00	15.45
Plot 109	12-Jun-09	0.03	0.05	4.84	0.55	5.39
Plot 109	18-Jul-09	0.25	0.42	12.49	0.80	13.29
Plot 109	26-May-10	0.43	0.41	30.51	1.48	31.99
Plot 109	31-May-11	0.05	0.24	18.70	1.35	20.05
Plot 109	1-Jun-12	0.05	0.17	0.95	0.55	1.50
Plot 109	5-Jun-13	0.23	0.21	23.80	3.83	27.63
Plot 109	31-May-14	0.10	0.10	11.50	1.09	12.59
Plot 109	4-Jun-15	0.09	0.11	13.30	1.63	14.93
Plot 109	31-May-16	---	0.05	5.97	0.79	6.76
Plot 109	31-May-17	---	0.07	7.47	0.92	8.39
Plot 109	30-May-18	---	0.03	3.31	1.15	4.46
Plot 109	30-May-19	---	0.03	3.24	0.69	3.93
Plot 109	3-Jun-20	---	0.02	2.68	0.18	2.86
Plot 109	8-Jun-21	---	0.02	2.15	1.06	3.21
Plot 109	7-Jun-22	---	0.02	1.67	0.59	2.26
Plot 109	20-Jun-23	---	0.04	4.44	3.88	8.32
Plot 110	26-Aug-03	<0.02	---	---	0.36	0.36
Plot 110	31-Aug-04	0.01	---	---	0.89	0.89
Plot 110	31-Aug-05	<0.02	0.005	0.06	0.14	0.20
Plot 110	16-May-06	0.01	0.008	0.11	0.15	0.26
Plot 110	5-Jun-07	<0.01	0.04	0.20	0.51	0.71
Plot 110	14-May-08	<0.01	0.01	0.91	0.42	1.33
Plot 110	1-Jun-08	---	0.01	1.04	0.41	1.45
Plot 110	12-Jun-09	0.01	0.008	0.40	0.17	0.57
Plot 110	18-Jul-09	0.01	0.02	0.04	0.61	0.65
Plot 110	26-May-10	0.01	0.02	0.06	0.45	0.51
Plot 110	31-May-11	<0.010	0.02	3.90	0.14	4.04
Plot 110	1-Jun-12	<0.010	0.002	0.04	0.28	0.32
Plot 110	4-Jun-13	0.01	0.01	0.06	0.40	0.46
Plot 110	30-May-14	0.01	0.007	0.82	0.77	1.59
Plot 110	4-Jun-15	<0.010	0.006	0.87	0.14	1.01
Plot 110	31-May-16	---	0.003	0.32	0.87	1.19
Plot 110	31-May-17	---	0.003	0.39	0.89	1.28
Plot 110	30-May-18	---	0.003	0.55	0.71	1.26
Plot 110	30-May-19	---	0.002	0.09	0.90	1.00
Plot 110	3-Jun-20	---	0.002	0.20	0.11	0.31
Plot 110	8-Jun-21	---	0.002	0.11	1.82	1.93
Plot 110	7-Jun-22	---	0.002	0.14	0.63	0.77
Plot 110	20-Jun-23	---	0.003	0.30	2.34	2.64

TABLE 7

Historical Labrador Tea Leaves Quality Results - Organic Parameters

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	Total Aroclors mg/kg	PCB Concentrations (Congeners) mg/kg	PCB TEQ ng TEQ/kg[1]	PCDD/PCDF TEQ ng TEQ/kg[1]	Total TEQ ng TEQ/kg[1]
Plot 114	26-Aug-03	0.07	---	---	0.56	0.56
Plot 114	31-Aug-04	0.06	---	---	0.99	0.99
Plot 114	30-Aug-05	0.06	0.02	4.44	0.14	4.58
Plot 114	15-May-06	0.05	0.06	8.13	0.79	8.92
Plot 114	4-Jun-07	0.03	0.10	10.44	1.80	12.24
Plot 114	14-May-08	0.11	0.08	7.35	0.99	8.34
Plot 114	1-Jun-08	---	0.08	8.23	1.18	9.41
Plot 114	12-Jun-09	0.05	0.07	6.51	0.33	6.84
Plot 114	18-Jul-09	0.04	0.07	3.62	1.28	4.90
Plot 114	26-May-10	0.10	0.21	18.80	4.26	23.06
Plot 114	31-May-11	0.06	0.12	10.20	0.39	10.59
Plot 114	1-Jun-12	0.05	0.05	0.34	0.53	0.87
Plot 114	4-Jun-13	0.04	0.05	6.49	0.69	7.18
Plot 114	31-May-14	0.02	0.04	4.71	1.09	5.80
Plot 114	4-Jun-15	0.04	0.04	5.12	0.50	5.62
Plot 114	1-Jun-16	---	0.021	2.41	0.33	2.74
Plot 114	31-May-17	---	0.017	2.13	1.85	3.98
Plot 114	30-May-18	---	0.013	1.66	0.31	1.97
Plot 114	31-May-19	---	0.010	1.37	0.97	2.34
Plot 114	3-Jun-20	---	0.010	1.17	0.17	1.34
Plot 114	8-Jun-21	---	0.012	1.49	1.96	3.45
Plot 114	7-Jun-22	---	0.008	0.64	0.38	1.01
Plot 114	20-Jun-23	---	0.020	1.11	4.65	5.76
Plot 117	26-Aug-03	0.03	---	---	0.21	0.21
Plot 117	31-Aug-04	<0.01	---	---	0.44	0.44
Plot 117	30-Aug-05	0.02	0.007	0.08	0.33	0.41
Plot 117	15-May-06	0.01	0.01	0.18	0.49	0.67
Plot 117	4-Jun-07	0.01	0.04	0.27	0.37	0.64
Plot 117	14-May-08	0.02	0.02	1.61	0.21	1.82
Plot 117	1-Jun-08	---	0.02	1.83	0.20	2.03
Plot 117	12-Jun-09	0.01	0.01	1.22	0.18	1.40
Plot 117	18-Jul-09	<0.0010	0.01	0.03	0.78	0.81
Plot 117	26-May-10	0.02	0.04	2.95	0.47	3.42
Plot 117	31-May-11	<0.010	0.02	2.41	0.11	2.52
Plot 117	1-Jun-12	<0.010	0.005	0.06	0.82	0.88
Plot 117	4-Jun-13	<0.010	0.01	0.06	0.41	0.47
Plot 117	31-May-14	<0.010	0.006	0.36	0.22	0.58
Plot 117	4-Jun-15	<0.010	0.005	0.68	0.17	0.85
Plot 117	1-Jun-16	---	0.007	0.68	0.22	0.89
Plot 117	31-May-17	---	0.005	0.70	0.75	1.45
Plot 117	30-May-18	---	0.003	0.52	1.57	2.09
Plot 117	31-May-19	---	0.002	0.44	0.89	1.33
Plot 117	3-Jun-20	---	0.003	0.33	0.19	0.52
Plot 117	8-Jun-21	---	0.003	0.27	0.81	1.08
Plot 117	7-Jun-22	---	0.003	0.14	0.65	0.78
Plot 117	20-Jun-23	---	0.008	0.87	9.45	10.32

TABLE 7

Historical Labrador Tea Leaves Quality Results - Organic Parameters

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	Total Aroclors mg/kg	PCB Concentrations (Congeners) mg/kg	PCB TEQ ng TEQ/kg[1]	PCDD/PCDF TEQ ng TEQ/kg[1]	Total TEQ ng TEQ/kg[1]
Plot 123	26-Aug-03	<0.02	---	---	0.21	0.21
Plot 123	30-Aug-05	<0.02	0.004	0.04	0.17	0.21
Plot 123	16-May-06	<0.01	0.01	0.03	0.71	0.74
Plot 123	5-Jun-07	<0.01	0.02	0.08	0.29	0.37
Plot 123	14-May-08	0.01	0.01	0.20	1.13	1.33
Plot 123	1-Jun-08	---	0.01	0.27	1.62	1.89
Plot 123	12-Jun-09	0.002	0.005	0.01	0.37	0.38
Plot 123	18-Jul-09	<0.0010	0.01	0.02	0.86	0.88
Plot 123	26-May-10	0.006	0.01	0.55	0.43	0.98
Plot 123	31-May-11	<0.010	0.004	0.02	0.11	0.13
Plot 123	1-Jun-12	<0.010	0.001	0.01	0.92	0.93
Plot 123	4-Jun-13	<0.010	0.003	0.01	0.28	0.29
Plot 123	30-May-14	<0.010	0.002	0.22	0.49	0.71
Plot 123	3-Jun-15	<0.010	0.001	0.23	0.07	0.31
Plot 123	30-May-16	---	0.002	0.07	0.82	0.90
Plot 123	31-May-17	---	0.001	0.17	0.56	0.73
Plot 123	31-May-18	---	0.0008	0.22	2.24	2.46
Plot 123	30-May-19	---	0.0006	0.06	1.30	1.36
Plot 123	2-Jun-20	---	0.0008	0.06	0.23	0.29
Plot 123	7-Jun-21	---	0.0006	0.02	1.39	1.41
Plot 123	6-Jun-22	---	0.0009	0.07	0.53	0.60
Plot 123	19-Jun-23	---	0.0018	0.21	6.57	6.78
Plot 402	26-Aug-03	<0.02	---	---	0.21	0.21
Plot 402	1-Sep-04	<0.01	---	---	0.86	0.86
Plot 402	30-Aug-05	0.05	0.0008	0.01	0.14	0.15
Plot 402	16-May-06	<0.01	0.003	0.01	0.28	0.29
Plot 402	5-Jun-07	<0.01	0.02	0.10	0.25	0.35
Plot 402	14-May-08	<0.01	0.01	0.01	0.19	0.20
Plot 402	1-Jun-08	---	0.01	0.02	0.18	0.20
Plot 402	12-Jun-09	0.001	0.003	0.01	0.17	0.18
Plot 402	17-Jul-09	<0.0010	0.01	0.01	0.66	0.67
Plot 402	25-May-10	<0.0020	0.004	0.01	0.19	0.20
Plot 402	31-May-11	<0.010	0.001	0.01	0.12	0.13
Plot 402	1-Jun-12	<0.010	<0.00001	ND	1.11	1.11
Plot 402	4-Jun-13	<0.010	0.003	0.01	0.49	0.50
Plot 402	30-May-14	<0.010	0.001	0.43	0.12	0.55
Plot 402	4-Jun-15	<0.010	0.001	0.16	0.15	0.31
Plot 402	30-May-16	---	0.0005	0.04	0.76	0.80
Plot 402	31-May-17	---	0.0004	0.07	1.51	1.58
Plot 402	29-May-18	---	0.0004	0.30	0.24	0.55
Plot 402	30-May-19	---	0.0003	0.07	1.17	1.24
Plot 402	2-Jun-20	---	0.0003	0.04	0.37	0.41
Plot 402	7-Jun-21	---	0.0006	0.02	2.14	2.16
Plot 402	6-Jun-22	---	0.0006	0.11	0.64	0.75
Plot 402	20-Jun-23	---	0.0007	0.33	4.29	4.62

Notes:

ND - results reported as zero in lab report

[1] - midpoint estimate used for TEQ

TABLE 8

Moss Bag Quality Results - Metals

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	MSI Sample Number	Al mg/kg	Sb mg/kg	As mg/kg	Ba mg/kg	Be mg/kg	B mg/kg	Cd mg/kg	Cr mg/kg	Co mg/kg	Cu mg/kg	Fe mg/kg	Pb mg/kg	Li mg/kg	Mn mg/kg	Hg mg/kg	Mo mg/kg	Ni mg/kg	Se mg/kg	Ag mg/kg	Sr mg/kg	Tl mg/kg	Sn mg/kg	Ti mg/kg	U mg/kg	V mg/kg	Zn mg/kg	Zr mg/kg
Unexposed - Acid Washed																												
Unexposed Moss	21-Jun-23	15867230621216	259	0.042	0.25	4.08	<0.010	<1.0	0.0173	0.693	0.132	1.57	329	0.57	<0.50	8.92	0.0388	0.396	0.47	0.068	0.006	0.469	<0.0020	0.54	7.96	0.0298	0.55	5.16	0.5
Unexposed Moss	21-Jun-23	15867230621217	245	0.043	0.268	3.73	<0.010	<1.0	0.0155	0.632	0.138	1.35	329	0.507	<0.50	8.34	0.0355	0.356	0.43	0.075	0.0055	0.432	<0.0020	1.01	7.04	0.0288	0.5	4.99	0.52
Unexposed Moss	21-Jun-23	15867230621218	237	0.045	0.255	3.92	<0.010	<1.0	0.0178	0.592	0.14	1.56	319	0.571	<0.50	8.82	0.035	0.392	0.42	0.071	0.0058	0.405	<0.0020	0.37	6.7	0.0293	0.48	4.55	0.42
Fenceline Monitoring Sites																												
Site 1	19-Jun-23	15867230619205	361	0.096	0.309	8.27	0.01	<1.0	0.0605	0.814	0.225	2.44	466	1.3	<0.50	20.2	0.072	0.455	0.67	0.071	0.014	1.48	0.0048	0.3	11.4	0.0404	0.84	63.4	0.66
Site 5	19-Jun-23	15867230619206	403	0.089	0.432	8.65	0.013	<1.0	0.0503	1.04	0.29	3.5	694	1.6	<0.50	20.3	0.0805	0.532	1.01	0.09	0.0161	1.62	0.0066	0.23	14.9	0.0488	1.03	37.2	0.77
Site 9	19-Jun-23	15867230619204	472	0.275	0.66	16	0.014	<1.0	0.151	1.58	0.337	9.85	690	10.3	<0.50	20	0.135	2.62	1.17	0.109	0.0703	2.44	0.0096	0.96	20.7	0.0518	1.16	92.6	0.83
Zone 1																												
MB4	19-Jun-23	15867230619202	310	0.071	0.298	5.76	<0.010	<1.0	0.0281	0.741	0.165	1.9	406	0.795	<0.50	25.5	0.0543	0.396	0.58	0.082	0.01	1.15	0.0037	0.41	9.78	0.0406	0.72	8.08	0.65
MB5	19-Jun-23	15867230619203	273	0.072	0.282	4.97	<0.010	<1.0	0.0322	0.638	0.154	1.96	354	0.828	<0.50	15.1	0.056	0.402	0.44	0.076	0.011	0.93	0.0033	0.26	8.85	0.0335	0.61	7.51	0.56
MB15	19-Jun-23	15867230619207	380	0.085	0.325	8.54	<0.010	<1.0	0.0455	0.808	0.197	2.18	447	1.16	<0.50	61.3	0.0652	0.457	0.73	0.087	0.0129	1.93	0.0054	0.23	11.3	0.0423	0.87	12.1	0.74
MB20	20-Jun-23	15867230620211	267	0.049	0.229	6.04	<0.010	<1.0	0.0269	0.588	0.175	1.64	357	0.581	<0.50	30.8	0.0453	0.413	0.46	0.066	0.0075	1.01	0.0025	0.14	8.11	0.0296	0.58	6.42	0.49
Zone 2																												
MB1	19-Jun-23	15867230619208	396	0.057	0.273	9.77	0.01	<1.0	0.0445	0.763	0.201	1.93	436	0.706	<0.50	81.6	0.0584	0.39	0.74	0.083	0.01	2.51	0.0054	0.43	11.8	0.0419	0.88	10.4	0.66
MB2	19-Jun-23	15867230619209	242	0.053	0.247	5.05	<0.010	<1.0	0.0237	0.555	0.21	2.19	351	0.605	<0.50	22.3	0.0462	0.482	0.43	0.056	0.0081	0.892	0.0031	0.11	7.7	0.0318	0.55	5.75	0.51
MB9	19-Jun-23	15867230619201	279	0.067	0.323	4.98	<0.010	<1.0	0.0161	0.758	0.182	1.77	439	0.685	<0.50	13	0.0499	0.813	0.42	0.074	0.0089	0.73	0.0026	0.13	9.61	0.0402	0.61	4.89	0.63
MB11	29-Jun-23	15867230629218	312	0.053	0.258	5.44	0.01	<1.0	0.0213	0.697	0.156	1.75	383	0.655	<0.50	23.1	0.0463	0.407	0.59	0.1	0.0089	0.999	0.0032	0.87	9.3	0.039	0.71	6.36	0.77
MB14	20-Jun-23	15867230620212	294	0.049	0.26	5.53	<0.010	<1.0	0.0199	0.72	0.153	1.55	383	0.572	<0.50	31	0.0448	0.365	0.47	0.08	0.0072	1.04	0.0027	0.33	9.18	0.0341	0.65	5.9	0.57
MB19	21-Jun-23	15867230621214	342	0.056	0.263	11.3	<0.010	<1.0	0.029	0.885	0.189	1.9	422	0.638	<0.50	128	0.0527	0.425	0.77	0.077	0.01	3.07	0.0044	0.21	9.8	0.0381	0.76	10.4	0.58
MB24	21-Jun-23	15867230621215	295	0.056	0.266	5.73	<0.010	<1.0	0.0369	0.714	0.16	1.63	375	0.643	<0.50	16.9	0.0446	0.401	0.46	0.075	0.0087	0.934	0.0028	0.15	8.34	0.0355	0.64	5.99	0.54
MB50	21-Jun-23	15867230621213	314	0.053	0.274	6.53	<0.010	<1.0	0.0235	0.865	0.167	1.67	379	0.614	<0.50	21	0.0445	0.399	0.49	0.079	0.0076	1.12	0.003	0.3	9.14	0.0357	0.67	8.16	0.56
MB71	19-Jun-23	15867230619210	286	0.058	0.272	7.54	<0.010	<1.0	0.027	0.637	0.175	1.68	375	0.581	<0.50	38.8	0.0498	0.429	0.48	0.074	0.0174	1.58	0.0029	0.36	9.65	0.0361	0.61	6.91	0.63

TABLE 9

Lichen Vitality

Veolia

W ½ 06-067-08 W5M

Site	Vigour																			Notes
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2007	2009	2011	2013	2014	2016	2018	2019	2021	2022	2023	
Zone 1																					
1-1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2	3	3	3	3	3	-
1-2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	-
1-3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3	3	3	3	3	3	-
2-1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3	3	3	2	3	3	-
2-2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2	3	3	3	3	3	-
2-3	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	-
4-1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2	3	3	3	3	2	-
4-2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2	2	2	2	2	3	-
4-3	---	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	2	2	1	1	Site 4 relocated in 1998.
5-1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	1	1	1	2	2	-
5-2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	1	1	2	2	2	-
5-3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3	3	3	3	3	3	-
9-1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2	2	2	2	2	2	-
9-2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2	1	1	1	1	2	-
9-3	3	3	3	3	3	2	2	2	2	2	2	3	2	2	2	3	3	3	3	3	-
Zone 2																					
11-1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2	2	3	3	3	3	-
11-2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2	3	3	3	3	3	-
11-3	---	3	3	3	3	3	3	3	2	2	3	3	3	3	3	3	3	3	3	3	-
14-1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3	3	3	3	3	3	-
14-2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3	3	3	3	3	3	-
14-3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	-
15-1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2	3	3	3	3	3	-
15-2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	2	2	2	2	2	-
15-3	3	3	3	3	3	3	3	3	3	3	3	3	---	3	2	3	3	3	3	3	-
20-1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3	3	3	3	3	3	-
20-2	3	3	3	3	3	3	3	–	3	3	3	3	3	3	3	2	1	2	2	2	Replacement for Site 17 that was cleared in 2004. In 2016 it was observed that the tree hosting the subsite had fallen over a new site may need to be selected. The vitality was considered to have degraded relative to 2018 due to missing lichen from the site.
20-3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3	3	3	3	3	3	-
Zone 3																					
19-1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2	3	3	3	3	3	-
19-2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2	2	3	2	2	2	-
19-3	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	2	1	3	3	3	
22-1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3	3	3	3	3	NM	In 2016 it was noted that a neighbouring tree had fallen near the site and scraped the lichen.
22-2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3	3	3	3	3	NM	-
22-3	---	---	---	---	---	---	---	---	---	3	3	3	2	2	3	3	3	3	3	NM	Site relocated 160 m further north in 2007.
24-1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3	---	3	3	3	3	Plot destroyed by FMA holder in 2017 or 2018 and was relocated in 2019. Potential lichen sites were identified but not monitored in 2018.
24-2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3	---	3	3	3	3	
24-3	2	2	2	2	2	2	2	2	2	2	2	3	3	2	3	---	3	3	3	3	
26-1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2	3	3	3	3	3	-
26-2	2	2	2	2	2	2	2	1	1	1	1	1	2	2	2	3	2	3	3	3	-
26-3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3	3	3	3	3	3	-
50-1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3	3	3	2	2	2	-
50-2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3	3	3	3	3	3	-
50-3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	3	3	3	2	2	Site relocated in 2014 8 m to the northwest of the previous site.
71-1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3	3	3	3	3	3	Tree which hosts the lichen site fell over, site is still visible but may need to be replaced in 2018.
71-2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2	2	2	3	3	3	-
71-3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	1	2	1	1	The tree hosting this lichen site is dead and some lichen appears to have fallen off with the tree bark.

Lichen Vitality Classes:

3 - No damage, healthy, robust.
2 - Partially damaged, discoloured, deformed necrotic tissue.
1 - Morbid, dead, tissue missing.
0 - Absent.
--- - No data.
NM - Not monitored, site could not be accessed due to flow velocities in the streams on the trail leading to the site

TABLE 10

Live Moss Quality Control Sample Results - PCB Congeners, PCDDs and PCDFs

Veolia

W ½ 06-067-08 W5M

Sample Point		Plot 109	Plot 109	Detection Limit (DL)	Reliable Detection Limit (RDL)**	Absolute Difference*	Absolute Relative Percent	Duplicate Sample Results Evaluation	Plot 402	Plot 402	Detection Limit (DL)	Reliable Detection Limit (RDL)**	Absolute Difference*	Absolute Relative Percent	Duplicate Sample Results Evaluation
Date	Unit	20-Jun-23	20-Jun-23						20-Jun-23	20-Jun-23					
Sample Number		15867230620007	15867230620008						15867230620010	15867230620011					
PCB Congeners															
Total PCB Congeners	mg/kg	0.0684	0.0396	0.000001	0.000005	0.0288	53	***Poor***	0.000267	0.000339	0.000001	0.000005	0.000072	24	Good
Lower Bound PCB TEQ	ng/kg	8.52	5.08	-	---	---	---	---	0.000845	0.000621	-	---	---	---	---
Mid Point PCB TEQ	ng/kg	8.52	5.08	-	---	---	---	---	0.131	0.17	-	---	---	---	---
Upper Bound PCB TEQ	ng/kg	8.52	5.08	-	---	---	---	---	0.262	0.339	-	---	---	---	---
PCDDs															
2,3,7,8-Tetra CDD	pg/g	0.065	<0.030	0.03	0.15	---	---	Good	<0.038	<0.052	0.052	0.26	---	---	Good
1,2,3,7,8-Penta CDD	pg/g	0.21	0.13	0.084	0.42	0.08	---	Good	<0.062	<0.086	0.086	0.43	---	---	Good
1,2,3,4,7,8-Hexa CDD	pg/g	0.308	0.18	0.084	0.42	0.128	---	Good	<0.13	<0.078	0.13	0.65	---	---	Good
1,2,3,6,7,8-Hexa CDD	pg/g	0.69	0.44	0.082	0.41	0.25	44	***Poor***	<0.12	<0.075	0.12	0.6	---	---	Good
1,2,3,7,8,9-Hexa CDD	pg/g	0.7	0.372	0.081	0.405	0.328	---	Good	<0.12	<0.075	0.12	0.6	---	---	Good
1,2,3,4,6,7,8-Hepta CDD	pg/g	8.45	5.61	0.2	1	2.84	40	***Poor***	0.45	0.9	0.14	0.7	0.45	---	Good
1,2,3,4,6,7,8,9-Octa CDD	pg/g	25	16.8	0.42	2.1	8.2	39	Good	3.33	6.93	0.43	2.15	3.6	70	***Poor***
Total Tetra CDD	pg/g	0.223	0.071	0.03	0.15	0.152	---	Good	0.12	<0.052	0.052	0.26	---	---	Good
Total TetraCDD Homologues	-	3	1	-	---	---	---	---	1	0	-	---	---	---	---
Total Penta CDD	pg/g	1.32	1.25	0.084	0.42	0.07	5	Good	<0.062	<0.086	0.086	0.43	---	---	Good
Total PentaCDD Homologues	-	5	3	-	---	---	---	---	0	0	-	---	---	---	---
Total Hexa CDD	pg/g	7.37	4.07	0.084	0.42	3.3	58	***Poor***	<0.13	<0.078	0.13	0.65	---	---	Good
Total HexaCDD Homologues	-	6	4	-	---	---	---	---	0	0	-	---	---	---	---
Total Hepta CDD	pg/g	16.9	11.5	0.2	1	5.4	38	Good	0.74	<0.24	0.24	1.2	---	---	Good
Total HeptaCDD Homologues	-	2	2	-	---	---	---	---	1	0	-	---	---	---	---
PCDFs															
2,3,7,8-Tetra CDF	pg/g	2.41	1.57	0.058	0.29	0.84	42	***Poor***	0.096	0.049	0.085	0.425	0.047	---	Good
1,2,3,7,8-Penta CDF	pg/g	0.57	0.43	0.056	0.28	0.14	28	Good	<0.053	<0.066	0.066	0.33	---	---	Good
2,3,4,7,8-Penta CDF	pg/g	1.22	0.855	0.052	0.26	0.365	35	Good	<0.055	<0.066	0.066	0.33	---	---	Good
1,2,3,4,7,8-Hexa CDF	pg/g	0.899	0.725	0.056	0.28	0.174	21	Good	<0.063	<0.052	0.063	0.315	---	---	Good
1,2,3,6,7,8-Hexa CDF	pg/g	0.704	0.47	0.052	0.26	0.234	40	Good	<0.063	<0.054	0.063	0.315	---	---	Good
1,2,3,7,8,9-Hexa CDF	pg/g	0.262	0.14	0.081	0.405	0.122	---	Good	<0.093	<0.082	0.093	0.465	---	---	Good
2,3,4,6,7,8-Hexa CDF	pg/g	0.942	0.59	0.059	0.295	0.352	46	***Poor***	<0.063	<0.059	0.063	0.315	---	---	Good
1,2,3,4,6,7,8-Hepta CDF	pg/g	3.95	2.47	0.11	0.55	1.48	46	***Poor***	<0.16	0.15	0.16	0.8	---	---	Good
1,2,3,4,7,8,9-Hepta CDF	pg/g	0.44	<0.18	0.18	0.9	---	---	Good	<0.20	<0.10	0.2	1	---	---	Good
1,2,3,4,6,7,8,9-Octa CDF	pg/g	3.62	2.7	0.14	0.7	0.92	29	Good	<0.28	<0.41	0.41	2.05	---	---	Good
Total Tetra CDF	pg/g	10.5	7.84	0.058	0.29	2.66	29	Good	0.115	0.049	0.085	0.425	0.066	---	Good
Total TetraCDF Homologues	-	12	16	-	---	---	---	---	1	1	-	---	---	---	---
Total Penta CDF	pg/g	8.34	5.28	0.056	0.28	3.06	45	***Poor***	<0.055	<0.066	0.066	0.33	---	---	Good
Total PentaCDF Homologues	-	9	7	-	---	---	---	---	0	0	-	---	---	---	---
Total Hexa CDF	pg/g	4.55	3.4	0.081	0.405	1.15	29	Good	<0.093	0.103	0.093	0.465	---	---	Good
Total HexaCDF Homologues	-	10	4	-	---	---	---	---	0	1	-	---	---	---	---
Total Hepta CDF	pg/g	3.95	2.47	0.18	0.9	1.48	46	***Poor***	<0.20	<0.10	0.2	1	---	---	Good
Total HeptaCDF Homologues	-	1	1	-	---	---	---	---	0	0	-	---	---	---	---
Lower Bound PCDD/PCDF TEQ	ng/kg	1.19	0.657	-	---	---	---	---	0.000999	0.00695	-	---	---	---	---
Mid Point PCDD/PCDF TEQ	ng/kg	1.49	0.951	-	---	---	---	---	0.109	0.122	-	---	---	---	---
Upper Bound PCDD/PCDF TEQ	ng/kg	1.49	0.967	-	---	---	---	---	0.202	0.226	-	---	---	---	---
Total TEQ	ng/kg	10.01	6.031	-	---	---	---	---	0.24	0.292	-	---	---	---	---

Notes:

--- - not applicable

* - non-detectable concentrations are assessed at 95% of the detection limit

** - the reliable (reporting) detection limit (RDL) or practical detection limit (PDL) is defined as 5 times the DL

Good - evaluation indicates acceptable reproducibility

Poor - evaluation indicates poor reproducibility

Evaluation of Duplicate Analyses:

- reproducibility is unacceptable if RPD is > 30% for inorganic waters and > 40% for soils and organics
- if RPD is not applicable (---), reproducibility is evaluated based on Absolute Difference (unacceptable if > 2 x RDL)
- if Absolute Difference is not applicable (---), reproducibility is evaluated based on the parameter concentration (unacceptable if > 2 x RDL)

TABLE 11a

Labrador Tea Leaves Quality Control Sample Results - Metals

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	MSI Sample Number	Al mg/kg	Sb mg/kg	As mg/kg	Ba mg/kg	Be mg/kg	B mg/kg	Cd mg/kg	Cr mg/kg	Co mg/kg	Cu mg/kg	Fe mg/kg	Pb mg/kg	Li mg/kg	Mn mg/kg	Hg mg/kg	Mo mg/kg	Ni mg/kg	Se mg/kg	Ag mg/kg	Sr mg/kg	Tl mg/kg	Sn mg/kg	Ti mg/kg	U mg/kg	V mg/kg	Zn mg/kg	Zr mg/kg
Plot 109	20-Jun-23	15867230620107	72	<0.010	<0.020	102	<0.010	17.7	0.0089	0.074	0.03	2.7	57.7	0.089	<0.50	587	0.0165	0.035	0.98	<0.050	<0.0050	5.29	0.0575	<0.10	0.75	<0.0020	<0.10	22.5	<0.20
Plot 109	20-Jun-23	15867230620108	74.6	<0.010	0.028	107	<0.010	17.4	0.0083	0.136	0.034	2.54	63.5	0.11	<0.50	605	0.017	0.035	1.01	<0.050	<0.0050	6.48	0.0352	<0.10	1.02	<0.0020	<0.10	22.8	<0.20
Detection Limit (DL)			2	0.01	0.02	0.05	0.01	1	0.005	0.05	0.02	0.1	3	0.02	0.5	0.05	0.005	0.02	0.2	0.05	0.005	0.05	0.002	0.1	0.25	0.002	0.1	0.5	0.2
Reliable Detection Limit (RDL)**			10	0.05	0.1	0.25	0.05	5	0.025	0.25	0.1	0.5	15	0.1	2.5	0.25	0.025	0.1	1	0.25	0.025	0.25	0.01	0.5	1.25	0.01	0.5	2.5	1
Absolute Difference*			2.6	---	---	5	---	0.3	0.0006	0.062	0.004	0.16	5.8	0.021	---	18	0.0005	0	0.03	---	---	1.19	0.0223	---	0.27	---	---	0.3	---
Absolute Relative Percent Difference (RPD)*			4	---	---	5	---	2	---	---	---	6	10	---	---	3	---	---	---	---	---	20	48	---	---	---	---	1	---
Duplicate Sample Results Evaluation			Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	***Poor***	Good	Good	Good	Good	Good	Good

Notes:

--- - not applicable

* - non-detectable concentrations are assessed at 95% of the detection limit

** - the reliable (reporting) detection limit (RDL) or practical detection limit (PDL) is defined as 5 times the DL

Good - evaluation indicates acceptable reproducibility

Poor - evaluation indicates poor reproducibility

Evaluation of Duplicate Analyses:

- reproducibility is unacceptable if RPD is > 30% for inorganic waters and > 40% for soils and organics
- if RPD is not applicable (---), reproducibility is evaluated based on Absolute Difference (unacceptable if > 2 x RDL)
- if Absolute Difference is not applicable (---), reproducibility is evaluated based on the parameter concentration (unacceptable if > 2 x RDL)

TABLE 11b

Labrador Tea Leaves Quality Control Sample Results - Macronutrients

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	MSI Sample Number	N %	Ca mg/kg	Mg mg/kg	K mg/kg	Na mg/kg	P mg/kg	S mg/kg
Plot 109	20-Jun-23	15867230620107	1.28	6400	1440	3980	<20	970	1080
Plot 109	20-Jun-23	15867230620108	1.22	6640	1420	3800	<20	960	1060
Detection Limit (DL)			---	20	2	20	20	10	100
Reliable Detection Limit (RDL)**			---	100	10	100	100	50	500
Absolute Difference*			0.06	240	20	180	---	10	20
Absolute Relative Percent Difference (RPD)*			---	4	1	5	---	1	2
Duplicate Sample Results Evaluation			Good	Good	Good	Good	Good	Good	Good

Notes:

--- - not applicable

* - non-detectable concentrations are assessed at 95% of the detection limit

** - the reliable detection limit (RDL) or practical detection limit (PDL) is defined as 5 times the DL

Good - evaluation indicates acceptable reproducibility

Poor - evaluation indicates poor reproducibility

Evaluation of Duplicate Analyses:

- reproducibility is unacceptable if RPD is > 30% for inorganic waters and > 40% for soils and organics
- if RPD is not applicable (---), reproducibility is evaluated based on Absolute Difference (unacceptable if > 2 x RDL)
- if Absolute Difference is not applicable (---), reproducibility is evaluated based on the parameter concentration (unacceptable if > 2 x RDL)
- pH is evaluated based on Absolute Difference (unacceptable if > 0.5)

TABLE 11c

Labrador Tea Leaves Quality Control Sample Results - PCB Congeners, PCDDs and PCDFs

Veolia

W ½ 06-067-08 W5M

Sample Point		Plot 109	Plot 109	Detection Limit (DL)	Reliable Detection Limit (RDL)**	Absolute Difference*	Absolute Relative Percent	Duplicate Sample Results Evaluation	Plot 402	Plot 402	Detection Limit (DL)	Reliable Detection Limit (RDL)**	Absolute Difference*	Absolute Relative Percent	Duplicate Sample Results Evaluation
Date	Unit	20-Jun-23	20-Jun-23						20-Jun-23	20-Jun-23					
Sample Number		15867230620107	15867230620108						15867230620110	15867230620111					
PCB Congeners															
Total PCB Congeners	mg/kg	0.0378	0.0372	0.000001	0.000005	0.0006	2	Good	0.000725	0.000717	0.000001	0.000005	8E-06	1	Good
Lower Bound PCB TEQ	ng/kg	4.37	4.57	-	---	---	---	---	0.00137	0.00133	-	---	---	---	---
Mid Point PCB TEQ	ng/kg	4.44	4.74	-	---	---	---	---	0.332	0.211	-	---	---	---	---
Upper Bound PCB TEQ	ng/kg	4.51	4.74	-	---	---	---	---	0.662	0.42	-	---	---	---	---
PCDDs															
2,3,7,8-Tetra CDD	pg/g	<2.3	<2.0	2.3	11.5	---	---	Good	<3.3	<5.7	5.7	28.5	---	---	Good
1,2,3,7,8-Penta CDD	pg/g	<2.9	<1.8	2.9	14.5	---	---	Good	<2.7	<6.3	6.3	31.5	---	---	Good
1,2,3,4,7,8-Hexa CDD	pg/g	<3.0	<1.8	3	15	---	---	Good	<2.8	<5.9	5.9	29.5	---	---	Good
1,2,3,6,7,8-Hexa CDD	pg/g	<3.0	<2.0	3	15	---	---	Good	<2.8	<6.2	6.2	31	---	---	Good
1,2,3,7,8,9-Hexa CDD	pg/g	<3.0	<1.9	3	15	---	---	Good	<2.8	<5.9	5.9	29.5	---	---	Good
1,2,3,4,6,7,8-Hepta CDD	pg/g	<2.8	<1.7	2.8	14	---	---	Good	<2.5	<5.2	5.2	26	---	---	Good
1,2,3,4,6,7,8,9-Octa CDD	pg/g	<4.2	7.5	4.2	21	---	---	Good	<6.2	<14	14	70	---	---	Good
Total Tetra CDD	pg/g	<2.3	<2.0	2.3	11.5	---	---	Good	<3.3	<5.7	5.7	28.5	---	---	Good
Total TetraCDD Homologues	-	---	---	-	---	---	---	---	---	---	-	---	---	---	---
Total Penta CDD	pg/g	<2.9	<1.8	2.9	14.5	---	---	Good	<2.7	<6.3	6.3	31.5	---	---	Good
Total PentaCDD Homologues	-	---	---	-	---	---	---	---	---	---	-	---	---	---	---
Total Hexa CDD	pg/g	<3.0	<2.0	3	15	---	---	Good	<2.8	<6.2	6.2	31	---	---	Good
Total HexaCDD Homologues	-	---	---	-	---	---	---	---	---	---	-	---	---	---	---
Total Hepta CDD	pg/g	<2.8	<1.7	2.8	14	---	---	Good	<2.5	<5.2	5.2	26	---	---	Good
Total HeptaCDD Homologues	-	---	---	-	---	---	---	---	---	---	-	---	---	---	---
PCDFs															
2,3,7,8-Tetra CDF	pg/g	<1.9	<1.6	1.9	9.5	---	---	Good	<2.1	<3.6	3.6	18	---	---	Good
1,2,3,7,8-Penta CDF	pg/g	<1.7	<1.3	1.7	8.5	---	---	Good	<1.8	<3.6	3.6	18	---	---	Good
2,3,4,7,8-Penta CDF	pg/g	<1.6	<1.2	1.6	8	---	---	Good	<1.8	<3.4	3.4	17	---	---	Good
1,2,3,4,7,8-Hexa CDF	pg/g	<1.9	<1.2	1.9	9.5	---	---	Good	<1.9	<3.4	3.4	17	---	---	Good
1,2,3,6,7,8-Hexa CDF	pg/g	<2.0	<1.0	2	10	---	---	Good	<1.9	<3.0	3	15	---	---	Good
1,2,3,7,8,9-Hexa CDF	pg/g	<2.5	<1.6	2.5	12.5	---	---	Good	<2.7	<4.7	4.7	23.5	---	---	Good
2,3,4,6,7,8-Hexa CDF	pg/g	<1.8	<1.1	1.8	9	---	---	Good	<2.0	<3.4	3.4	17	---	---	Good
1,2,3,4,6,7,8-Hepta CDF	pg/g	3.2	<1.4	1.4	7	---	---	Good	<2.5	<5.1	5.1	25.5	---	---	Good
1,2,3,4,7,8,9-Hepta CDF	pg/g	<2.6	<1.8	2.6	13	---	---	Good	<3.6	<7.2	7.2	36	---	---	Good
1,2,3,4,6,7,8,9-Octa CDF	pg/g	<2.7	<2.5	2.7	13.5	---	---	Good	<4.2	<11	11	55	---	---	Good
Total Tetra CDF	pg/g	<1.9	<1.6	1.9	9.5	---	---	Good	<2.1	<3.6	3.6	18	---	---	Good
Total TetraCDF Homologues	-	---	---	-	---	---	---	---	---	---	-	---	---	---	---
Total Penta CDF	pg/g	<1.7	<1.3	1.7	8.5	---	---	Good	<1.8	<3.6	3.6	18	---	---	Good
Total PentaCDF Homologues	-	---	---	-	---	---	---	---	---	---	-	---	---	---	---
Total Hexa CDF	pg/g	<2.5	<1.6	2.5	12.5	---	---	Good	<2.7	<4.7	4.7	23.5	---	---	Good
Total HexaCDF Homologues	-	---	---	-	---	---	---	---	---	---	-	---	---	---	---
Total Hepta CDF	pg/g	3.2	<1.8	1.8	9	---	---	Good	<3.6	<7.2	7.2	36	---	---	Good
Total HeptaCDF Homologues	-	---	---	-	---	---	---	---	---	---	-	---	---	---	---
Lower Bound PCDD/PCDF TEQ	ng/kg	0.0319	0	-	---	---	---	---	0	0	-	---	---	---	---
Mid Point PCDD/PCDF TEQ	ng/kg	3.88	2.74	-	---	---	---	---	4.29	8.46	-	---	---	---	---
Upper Bound PCDD/PCDF TEQ	ng/kg	7.73	5.47	-	---	---	---	---	8.58	16.9	-	---	---	---	---
Total TEQ	ng/kg	8.32	7.48	-	---	---	---	---	4.622	8.671	-	---	---	---	---

Notes:

--- - not applicable

* - non-detectable concentrations are assessed at 95% of the detection limit

** - the reliable (reporting) detection limit (RDL) or practical detection limit (PDL) is defined as 5 times the DL

Good - evaluation indicates acceptable reproducibility

Poor - evaluation indicates poor reproducibility

Evaluation of Duplicate Analyses:

- reproducibility is unacceptable if RPD is > 30% for inorganic waters and > 40% for soils and organics
- if RPD is not applicable (---), reproducibility is evaluated based on Absolute Difference (unacceptable if > 2 x RDL)
- if Absolute Difference is not applicable (---), reproducibility is evaluated based on the parameter concentration (unacceptable if > 2 x RDL)

TABLE 12

Quality Control Sample Results-PCB Field Blanks

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	MSI Sample Number	Aroclor 1016 mg/kg	Aroclor 1221 mg/kg	Aroclor 1232 mg/kg	Aroclor 1242 mg/kg	Aroclor 1248 mg/kg	Aroclor 1254 mg/kg	Aroclor 1260 mg/kg	Aroclor 1262 mg/kg	Aroclor 1268 mg/kg	Total PCBs mg/kg
Field Blank	19-Jun-23	15867230619302	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.050
Field Blank	20-Jun-23	15867230620303	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.050
Detection Limit (DL)			0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05

Notes:

--- - not analyzed

Italics - value exceeds 2 x detection limit and indicates the results for this parameter may be suspect: further investigation warranted

APPENDIX A
Monitoring Protocol

APPENDIX A1
Updates to Monitoring Program and Moss Bag Washing Protocol

APPENDIX A1

UPDATES TO THE MONITORING PROGRAM

In 2019 an updated protocol for the monitoring program was developed and this protocol is appended as Appendix A2. Since 2019 the following updates have been made to the program:

- Minor adjustments to the moss bag washing protocol outlined below
- At the onset of 2020 the following changes were implemented to the program (Matrix 2020).
  - ✦ Live moss will be sampled annually but only analyzed biennially in years 1, 3, and 5 of the 5-year cycle.
  - ✦ Moss bags are being deployed and collected annually.

The Triggers for this program were updated in 2020 as follows:

- In years 2 and 4 of the 5-year monitoring cycle, if TEQ levels in the Labrador tea at those plots near the SHTC (plots 4, 11, 109, and 114) exceed the 75th percentile of historical values (last 10 years of data) then the live moss will also be analyzed for PCBs and dioxins/furans.
- A facility upset resulting in offsite emissions of significant magnitude would result in soil and vegetation sampling at selected sites immediately following incident. The number/location of sites and analytical scope would be based on meteorological conditions and the nature of the release.

UPDATES TO THE MOSS BAG WASHING PROTOCOL

The following updates have been made based on observations of metal reductions in subsequent batches of washed peat moss since the acid washing protocol was initiated in 2019:

- The moss is now prepared and washed at Alberta Innovates in Edmonton, Alberta.
- Trace metal grade acid should be used when washing the moss.
- The buckets used to wash the peat moss should be newly purchased and acid rinsed prior to use.
- A switch was made from using deionized water to using water that had been filtered through a Millipore filtration system (Milliq CDOF01205).
- The peat is now soaked for two 24-hour periods at a ratio of 1 part peat to 3 parts dilute acid by volume.
- The peat is dried in a drying room with filtered air so that dust does not collect on the surface of the peat while it is being dried.

Currently the acid washed moss utilized in the moss bags is associated with batches of moss that were washed at Alberta Innovates in 2020 and in the winter of 2021. Metals analysis following the acid washing of these batches is found in Table A1.3.

REFERENCES

Matrix Solutions Inc. (Matrix). 2021. *2020 Soil and Vegetation Monitoring Program Report, Swan Hills Treatment Centre, EPEA Approval No. 00001744-03-00, as Amended*. Version 1.0. Prepared for SUEZ Canada Waste Services Inc. Edmonton, Alberta. March 2021.

Matrix Solutions Inc. (Matrix). 2020. *2020 Proposed Updates Soil Management Program, Swan Hills Treatment Centre, W ½ 06-067-08 W5M, EPEA Approval No. 00001744-03-00, as amended*. Version 1.0. Prepared for SUEZ Canada Waste Services Inc. Edmonton, Alberta. April 27, 2020.

TABLE A1.1

Updated Sampling Schedule

Veolia Waste Services Alberta Inc.

W ½ 06-067-08 W5M

Sample Point	UTM (m)		Sampled Annually	Sampled Biennially	Sampled Every 5 years Only
	Northing	Easting	Years 1 to 5	Years 1, 3 and 5	
Live Moss*					
Plot 4	6071027	615111	x		
Plot 11	6071792	614644	x		
Plot 70	6067388	603071	x		
Plot 71	6090717	610660	x		
Plot 109	6071109	614333	x		
Plot 110	6070621	614146	x		
Plot 114	6070370	615636	x		
Plot 117	6069476	616123	x		
Plot 123	6072155	616302	x		
Plot 402	6070378	622256	x		
Labrador Tea Leaves					
Plot 4	6071027	615111	x		
Plot 11	6071792	614644	x		
Plot 70	6067388	603071	x		
Plot 71	6090717	610660	x		
Plot 109	6071109	614333	x		
Plot 110	6070621	614146	x		
Plot 114	6070370	615636	x		
Plot 117	6069476	616123	x		
Plot 123	6072155	616302	x		
Plot 402	6070378	622256	x		
Soil					
Plot 4	6071027	615111			x
Plot 11	6071792	614644			x
Plot 70	6067388	603071			x
Plot 71	6090717	610660			x
Plot 109	6071109	614333			x
Plot 110	6070621	614146			x
Plot 114	6070370	615636			x
Plot 117	6069476	616123			x
Plot 123	6072155	616302			x
Plot 402	6070378	622256			x
Moss Bag & Lichen Plots					
MB1	6071636	614877	x		
MB2	6071499	615167	x		
MB4	6071042	615113	x		
MB5	6070830	615191	x		
MB9	6071537	616313	x		
MB11	6071793	614620	x		
MB14	6070786	617626	x		
MB15	6071257	614272	x		
MB19	6072437	611431	x		
MB20	6069869	614958	x		
MB22	6068502	615759	x		
MB24	6069288	620330	x		
MB26	6073143	612778	x		
MB50	6075021	611447	x		
MB71	6090717	610660	x		
Expanded Program Plots					
Plot 1	6071499	615180			x
Plot 2	6071680	614875			x
Plot 5	6070876	615167			x
Plot 6	6071317	615555			x
Plot 7	6071148	616122			x
Plot 8	6071068	615921			x
Plot 9	6071376	616251			x
Plot 12	6071306	613823			x
Plot 13	6070904	616908			x
Plot 14	6071087	619130			x
Plot 15	6071310	613824			x
Plot 16	6070606	617622			x
Plot 26	6072436	611432			x
Plot 27	6069869	614958			x
Plot 28	6071785	612645			x
Plot 29	6070373	619636			x
Plot 80	6070420	614497			x
Plot 81	6074838	611636			x
Plot 102	6070994	615418			x
Plot 103	6070659	615169			x
Plot 104	6071516	614425			x
Plot 121	6072855	614343			x

*Live moss is sampled annually but only analyzed in years 1, 3 and 5 of the monitoring cycle

TABLE A1.2

Updated Analytical Schedule

Veolia Waste Services Alberta Inc.

W ½ 06-067-08 W5M

Parameters	Live Moss Annual Plots Year 1 and 3	Labrador Tea Annual Plots Year 1 to 4	Live Moss Annual Plots Year 5	Labrador Tea Annual Plots Year 5	Labrador Tea Expanded Plots Year 5	Soil Annual Plots Year 5	Moss Bags Moss Bag Plots Year 1 to 5
Metals and nutrients[12]	X	X	X	X			
Metals[1]							X
Saturated paste EC/pH	X		X				
Total nitrogen		X		X			
Aroclor PCBs			X			X	
PCBs (LRMS)					X		
PCBs (HRMS)	X	X	X	X			
PCDD/PCDDF	X	X	X	X			

EC - Electrical conductivity

LRMS - Low resolution mass spectroscopy

HRMS - High resolution mass spectroscopy

PAH - Polycyclic aromatic hydrocarbons

PCDD - Polychlorinated dioxins

PCDF - Polychlorinated furans

PCBs - Polychlorinated biphenyls

[1] Includes aluminum, antimony, arsenic, barium, beryllium, boron, cadmium, chromium, cobalt, copper, iron, lead, lithium, manganese, mercury, molybdenum, nickel, selenium, silver, strontium, thallium, tin, titanium, uranium, vanadium, zinc, zirconium

[2]Nutrients analyzed includes calcium, magnesium, phosphorous, potassium, sodium, sulphur. Labrador tea samples were analyzed for nitrogen.

TABLE A1.3

Acid Washed Moss Batch Results - Alberta Innovates

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	Al mg/kg	Sb mg/kg	As mg/kg	Ba mg/kg	Be mg/kg	Bi mg/kg	B mg/kg	Cd mg/kg	Ca mg/kg	Cs mg/kg	Cr mg/kg	Co mg/kg	Cu mg/kg	Fe mg/kg	Pb mg/kg	Li mg/kg	Mg mg/kg	Mn mg/kg	Hg mg/kg	Mo mg/kg	Ni mg/kg	P mg/kg	K mg/kg	Rb mg/kg	Se mg/kg	Ag mg/kg	Na mg/kg	Sr mg/kg	S mg/kg	Te mg/kg	Tl mg/kg	Sn mg/kg	Ti mg/kg	U mg/kg	V mg/kg	Zn mg/kg	Zr mg/kg
Moss 1	04-Jun-20	280	0.054	0.24	4.16	<0.010	0.012	<1.0	0.0166	56	0.0315	0.665	0.155	1.58	313	0.601	<0.50	67.7	12.4	0.0352	0.39	0.43	380	47	0.239	0.072	0.008	25	0.482	---	<0.020	0.0033	0.12	---	0.0386	0.6	4.58	0.68
Moss 2	04-Jun-20	271	0.051	0.242	3.68	<0.010	0.011	<1.0	0.0156	42	0.0308	0.638	0.178	1.43	322	0.556	<0.50	67.7	7.74	0.0348	0.599	0.41	375	32	0.271	0.072	0.0071	26	0.433	---	<0.020	0.0034	0.11	---	0.031	0.56	3.63	0.64
Moss 3	04-Jun-20	237	0.052	0.244	3.44	<0.010	<0.010	<1.0	0.0136	44	0.0307	0.64	0.113	1.43	300	0.55	<0.50	49.6	6.06	0.0337	0.371	0.44	370	33	0.225	0.075	0.0078	24	0.372	---	<0.020	0.0027	0.26	---	0.0312	0.51	5.35	0.5
15867211124001	24-Nov-21	243	0.039	0.292	3.25	<0.010	<0.010	<1.0	0.0088	33	0.0329	0.677	0.151	0.77	236	0.393	<0.50	58.1	5.47	0.0363	0.473	0.27	335	29	0.189	0.107	0.0065	<20	0.35	610	<0.020	0.0029	<0.10	7.35	0.035	0.56	2.27	0.47
15867211124002	24-Nov-21	244	0.035	0.277	3.7	<0.010	<0.010	<1.0	0.0153	35	0.0331	0.679	0.16	0.83	183	0.415	<0.50	66.7	6.08	0.0331	0.471	0.28	316	29	0.195	0.094	0.0067	<20	0.346	590	<0.020	0.0029	<0.10	7.35	0.037	0.56	2.45	0.48
15867211124003	24-Nov-21	236	0.042	0.264	3.01	<0.010	0.01	<1.0	0.0121	31	0.0309	0.786	0.164	0.72	168	0.949	<0.50	57.5	5.68	0.0341	0.47	0.26	303	27	0.183	0.089	0.0069	<20	0.332	580	<0.020	0.003	<0.10	7.11	0.0335	0.53	2.21	0.61

APPENDIX A2
Soil and Vegetation Monitoring Protocol

SOIL AND VEGETATION MONITORING PROTOCOL
SWAN HILLS TREATMENT CENTRE
EPEA APPROVAL NO. 00001744-02-01, AS AMENDED

Prepared for:
SUEZ CANADA WASTE SERVICES INC.

Prepared by:
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Version 1.0
December 2019
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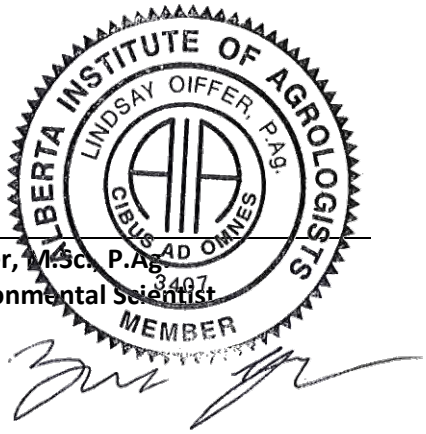
SOIL AND VEGETATION MONITORING PROTOCOL

SWAN HILLS TREATMENT CENTRE

EPEA APPROVAL NO. 00001744-02-01, AS AMENDED

Prepared for SUEZ Canada Waste Services Inc., December 2019



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V0.1	22-Nov-2019	Draft	15867-503 R 2019-11-22 draft V0.1.docx	Issued to client for review
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1 INTRODUCTION

SUEZ Canada Waste Services Inc. retained Matrix Solutions Inc. to complete the 2015 to 2019 soil and vegetation monitoring program for the Swan Hills Treatment Centre (SHTC), located in the Municipal District of Big Lakes. The monitoring program has been in place since the plant began operation in 1987. Monitoring has been completed annually in the spring or fall since 1988. Baseline samples were collected before operation between 1985 and 1987.

This document outlines the methodology employed to complete the monitoring program and includes updates to the original monitoring protocol which was prepared in 1994 (HBT 1994).

1.1 Monitoring Program Objectives

Forest environments are typically considered to be sinks for atmospheric pollutants, with pollutants being deposited on forest vegetation and eventually being stored within the leaf litter (Nizzetto et al. 2008; Wania and Mclachlan 2001). The objective of the monitoring program is to assess changes in concentrations of chemicals of concern in the forested area surrounding the SHTC. This program is completed in accordance with Section 4.8 of the facility's *Environmental Protection and Enhancement Act* (EPEA) Approval No. 00001744-02-01, as amended.

2 MONITORING PROGRAM SCOPE

During the monitoring program samples are collected and analyzed for the chemical parameters listed in Section 3.3. The monitoring program is based on a 5-year cycle that consists of the following:

- Every year, samples of Labrador tea leaves and live moss are collected at ten annual monitoring plots (Figure 1). Contaminant concentrations in the live moss represent cumulative deposition over a longer time period, whereas, the Labrador tea leaves are representative of deposition which occurred over the previous year.

- Every second year (biannually), 15 moss bag samples are collected from moss bag plots (Figure 1). Concurrent with the collection of the moss bags, lichen health is also assessed at these plots. The moss bag data are used to account for any atmospheric deposition that may be occurring.

- Every 5 years, Labrador tea leaves are sampled from an additional 22 expanded program monitoring plots (Figure 1).

Note that there is a contingency that if live moss PCB concentrations increase by 50% or more over the previous two years, additional sampling would be triggered. This would involve sampling the underlying organic or mineral soil layers in the next sampling period for PCBs.

3 METHODOLOGY

3.1 Plot Selection

3.1.1 Background

Soil and vegetation monitoring plots were established based on plume dispersion models (Bovar-Concord Environmental 1995) and a baseline ecological survey of the plume deposition zone (the study area). Based on the ecological survey the following dominant ecosites were identified within the study area:

- Black spruce - Labrador Tea - feather moss
- Lodgepole pine - black spruce
- Black spruce - sedge-cloudberry - sphagnum

The current monitoring plot locations are located primarily in the black spruce - Labrador tea - feather moss ecosite with some plots situated within the lodgepole pine - black spruce ecosite. There are no plots currently situated in the sedge-cloudberry-sphagnum ecotype as it is not commonly found within the study area.

Moss bag and lichen plots were established initially in 1988 by overlaying a 10 × 20 km grid over the facility oriented in an east-west direction. Initially 50 sites where established with 10 sites situated upwind (west) of the facility and 40 sites situated downwind (east). Between 1988 and 1990 the sites were re-aligned based on updated plume deposition zones. Since 1988 the number of lichen and moss bag plots has been reduced to 15 sites (6 upwind and 9 downwind) to eliminate any redundancies in the data collected.

The location of all the plots within the theoretical depositional zones is summarized in Table A below.

TABLE A Monitoring Plots in each Depositional Zone

Inorganic Parameters		
Zone 1 (>0.2 µg/m³ NO_x)	**Zone 2 (<0.2 µg/m³ NO_x)**	
Plots *4, 5, 15, 20* and 114	Plots *1, 2, 9,* 11*, 14, 19, 22, 24, 26, 50,* 70*,* 71*,* 109*,* 110*,* 117*,* 123*,* and 402	
Organic Parameters		
Zone 1 (>1 ng/m³ PCB)	**Zone 2 (0.5 - 1.0 ng/m³ PCB)**	**Zone 3 (<0.5 ng/m³ PCB)**
Plots 1, 2, 4, 5, 6, 8 11, 12, 15, 80, 102, 103, 104, 109, and 110	Plots 7, 9, 13, 27, 28, 114 and 121	Plots 14, 16, 26, 29, 70, 71, 81, 117, 123, and 402

*4 - underlined denotes annual monitoring plots
**5 - *italics* denotes plots with moss bags and where lichen health is assessed

More recent air emissions modelling completed in 2014 (Zelt PSI 2014) indicated that those plots situated in Zone 1 would still be more likely to receive emissions from the SHTC even though all predicted emission levels have been below threshold values or air quality objectives.

3.1.2 Plot Markings

The location of the monitoring plots is shown on Figure 1 and plot specific direction maps are provided in Appendix A. A diagram of a typical soil and veg plot layout is provided in Figure 2.

Coordinates for the monitoring plots have been verified using a Trimble or Garmin GPS unit between 2015 and 2019. The trail leading to the plots have been marked with blue and pink flagging and white reflective 3M strips. Tree paint was also used in 2016; however, it was found to fade when exposed to sunlight and has not been used since. For some plots a triangle has been added to mark the start of the trail leading to the plot location.

Maintenance work is completed in conjunction with sampling at the plots. Since the expanded program plots are only sampled once every 5 years a site visit is typically planned in year 2 of the program's cycle to ensure maintenance issues are noted. Maintenance at the annual plots is completed annually. Maintenance at the expanded and moss bag plots is typically staggered during the 5 year cycle.

The following maintenance work is completed:

- trail markings leading to the plots are updated e.g. re-marked whenever they are visited.
- plot markings (reflective triangles) and the live moss transect markings are also updated as necessary.
- direction maps are checked and updated as necessary with any details that assist with plot location
- plot coordinates are checked and updated as necessary

If a plot needs to be relocated due to conflicting industrial activities care should be taken to update the plot coordinates, location map and plot markings. The new plot should be established as per Figure 2. Any markings leading to the old plot should be removed to avoid potential confusion with plot access in the future.

3.2 Field Methods

The original monitoring protocol was completed by HBT in 1994 (HBT 1994). Since then, some sampling procedures have been removed from the program and there has been a change in the preparation of the moss bags. The current field methods utilized for this program are outlined below.

The monitoring program is based on a 5-year cycle that consists of the following:

- every year, samples of Labrador tea leaves and live moss are collected at ten annual monitoring plots
- every second year (biannually), 15 moss bag samples are collected from moss bag plots
- every 5 years, Labrador tea leaves are sampled from an additional 22 expanded program monitoring plots

3.2.1 Soil and Vegetation Plots

Live moss samples were collected as per the Monitoring Protocol. This involved collecting subsamples of the live moss layer at the ends and mid-point of a 30 m linear transect established in each monitoring plot (Figure 2; quadrants 1, 5, and 10). The live moss layer includes the green vegetative portion of the moss and associated rhizoids. For each subsample, live moss is collected using gloved hands (nitrile gloves), forest litter is removed (needles and leaves) and then the moss was homogenized in a large plastic ziplock bag. A portion of the moss sample is tightly packed into two to four 500 mL laboratory-supplied glass jars for organic analysis; the volume required is dependent on the analytical schedule. The remaining sample is sealed in the bag for inorganic analysis (approximately 2 L of moss).

Labrador tea leaves are collected in the vicinity of the monitoring plots by gloved hand. Only the previous growing seasons leaves are collected (larger leaves) from the plant. The leaves are homogenized in a large plastic bag then a portion of the leaves are packed in two 500 mL laboratory-supplied glass jars for organic analysis. The remaining sample is sealed in the bag for inorganic analysis (approximately 2 L of leaves). Samples are kept cold (<10 ^{0}C) until they are delivered to the laboratory

Soil samples are collected from the underlying mineral soil using a metal shovel and metal scraping tool. Sub-samples are collected at the ends and mid-point of a 30 m linear transect. A small soil pit is excavated at each location to a depth of at least 15 cm into the mineral soil layer. The face of the pit is cleaned with a small metal scraping tool and then samples of the entire depth of the decomposing moss horizon (fibric, mesic, humic) and mineral soil (0 to 5 cm and 5 to 15 cm) are collected, each depth increment homogenized and placed in laboratory supplied glass jars. Leaf litter layers, if present, are not sampled.

Note that sample volumes will vary depending on the analytical requirements for the specific sampling year. Nitrile gloves are changed at a minimum between plots.

3.2.2 Lichen Plots

There are three lichen health subsites at each of the moss bag plots. The primary species of lichen at these sites is *Hypogymnia physoides.* Lichen health is visually assessed consistent with the methodology employed in previous monitoring programs using the following rating system:

- 3 - no damage, healthy, robust
- 2 - partially damaged, discoloured, deformed necrotic tissue
- 1 - morbid, dead, tissue missing
- 0 - absent

Historically one of the three lichen sub-sites was assessed and if the health rating at this site decreased by one rating point from the previous sampling event, the other sub-sites were also assessed. If all three sub-sites were of a similar health rating, then this decrease in vitality would be considered significant. Since 2016, all sub-sites have been assessed.

Each sub-site is photographed with a digital camera capable of ten megapixel resolution, a monopod was used for stability while photographing. Before photographing the lichen site, a quadrat of known dimensions (9 cm × 20 cm interior dimension) was aligned with two nail markings at the sub-site and placed over the lichen. This was done to provide a measure of scale in the photograph.

Area measurements have not been completed since 1991 as the changes in growth were too insignificant to measure.

Occasionally lichen sites may need to be relocated should the tree hosting the site fall over. When relocating the site the following should be completed:

- A suitable tree within the plot should be selected with lichens growing around 1.5 to 2 m above ground level to avoid the potential for wildlife to remove lichens from the subsite.
- The tree should be flagged with orange flagging.
- Two galvanized or aluminum nails should be driven into the tree beneath the lichen to mark the plot. The spacing of the nails should be noted and consistent with the other lichen subsites at the plot.
- A metal tag identifying the site number should be nailed to the subsite. The tag should be scored to ensure the site number does not fade over time.

3.2.3 Moss Bag Plots

The following section outlines the preparation, construction and collection of moss bags. It should be noted that a temporary field authorization is not required to collect the moss (Weber 2018). Note that acid washing will be added to the program in 2020 based on the trial which occurred between 2017 and 2019 (Matrix 2019).

Moss Bag Preparation (Adapted from Goodarzi et al. 2003)

Undecomposed moss is collected and prepared according to the following steps:

1. Collect 20 to 40 L of fibric (undecomposed) peat moss (*Sphagnum* spp.) in 20 L plastic buckets from a peatland situated near Swan Hills. The location of the peatland is situated north of Swan Hills and east of Highway 33. The location is opposite a cellular communication tower and the Universal Transverse Mercator coordinates for the area are N6068005/E603628.
2. Buckets used for moss collection are rinsed three times with distilled water before use. A metal shovel is used to collect blocks of peat which are then placed in the buckets.
3. Moss is transported to the laboratory within 24 hours of collection and stored at 4°C.
4. Moss is homogenized by hand in a clean laboratory setting and any twigs or leaf litter are removed.

5. The moss is acid washed by soaking for two 12 hour periods in 20 L HDPE buckets containing 0.5 M nitric acid. In between soakings the moss will be rinsed three times with distilled water. After the second soaking, the moss will be rinsed with distilled water until the rinsate is near or above a pH of 4 or until further rinsing is deemed impractical. Metal should not come in contact with the acid bath or the acid soaked moss.
6. The moss will be segregated into smaller aliquots for placement in the moss bags. Each aliquot should yield approximately 8 g of moss dry weight (based on gravimetric moisture correction).
7. The moss will be placed in the moss bag, the top of the moss bag will be sewn shut using nylon thread and the bags will be allowed to air dry to a damp state for ease of storage.

Moss Bag Construction

Moss bags are constructed as per Figure 3. The moss bags are constructed using UV stabilized high density polyethylene scaffold netting with 1.6 mm × 3.2 mm rectangular holes in the mesh. Seams in the bags are made by welding the mesh together with a soldering iron. The pouch containing the moss is closed by hand using weather resistant nylon sowing thread. Before placing moss in the mesh bags they are soaked for one 12 hour period in 0.5 M nitric acid and rinsed three times with distilled water.

Other types of mesh can also be sourced, however, the mesh should not be treated with any chemicals that are being monitored, should be UV resistant, should have a small enough aperture size to contain the moss and should be suitable for plastic welding.

The moss bag holder is prepared using 0.625 cm diameter PVC rods shaped into a slingshot as illustrated on Figure 3. The rod is bent into shape using a heat gun and the holder is bent at a 45^{o} angle to facilitate capture of atmospherically deposited particulate matter and rain fall.

Moss bag holders are installed by pushing or hammering a 1.9 cm ID schedule 80 PVC pipe into the ground to a height of 100 cm above ground surface. The moss bag holders are installed in the PVC and orientated in the direction of the facility.

Moss Bag Collection and Deployment

Following a 2 year (sample program years 2 and 4) or 1 year exposure period (sample program year 5) moss bags are collected using gloved (nitrile) hands and placed in laboratory-supplied ziplock bags. A new unexposed moss bag is placed on the moss bag holder and zip ties are used to secure the moss bag to the holder. All unexposed moss bags are stored in sealed ziplock bags during transport to the field for deployment.

Three unexposed moss bags or un-bagged aliquots of moss are obtained from storage and analyzed to provide an indication of background metal concentrations in the moss used to prepare the moss bags.

3.2.4 Decontamination Methods

The following methods are employed to avoid cross-contamination:

- sampling equipment is decontaminated between plots by washing sequentially with an organic solvent (methanol), laboratory-grade detergent, and lastly, distilled water
- disposable gloves are worn while sampling and are changed between plots or as necessary
- mosquito repellents or other aerosol sprays are not used during the program

3.3 Laboratory Methods

Laboratory analysis for organic parameters has been and is currently completed by ALS Canada. Analysis of inorganic parameters was previously completed by AMEC (pre 2015). Since 2015, ALS Canada has completed most of the inorganic analysis with the exception that Maxxam was contracted to analyze samples for metals between 2015 and 2018 as they where able to use the same method for metal extraction as AMEC.

A summary of sample analysis by plot is provided in Table B.

TABLE B Analytical Program

Parameters	Live Moss Annual Plots Year 1 to 5	Labrador Tea Annual Plots Year 1 to 5	Live Moss Annual Plots Year 5	Labrador Tea Expanded Plots Year 5	Soil Annual Plots Year 5	Moss Bags Moss Bag Plots Year 2, 4, and 5
Metals and nutrients[1]	X	X				
Metals[2]						X
Saturated paste EC/pH	X					
Total nitrogen		X				
Aroclor PCBs			X		X	
PCBs (LRMS)				X		
PCBs (HRMS)	X	X				
PCDD/PCDDF	X	X				

EC - Electrical conductivity
LRMS - Low resolution mass spectroscopy
HRMS - High resolution mass spectroscopy
PAH - Polycyclic aromatic hydrocarbons
PCDD - Polychlorinated dioxins
PCDF - Polychlorinated furans
PCBs - Polychlorinated biphenyls

[1] Includes aluminum, antimony, arsenic, barium, beryllium, boron, cadmium, calcium, chromium, cobalt, copper, iron, lead, lithium, manganese, magnesium, mercury, molybdenum, nickel, phosphorous, potassium, selenium, silver, sodium, strontium, sulphate, sulphur, thallium, tin, titanium, uranium, vanadium, zinc, zirconium

[2] Includes calcium, magnesium, phosphorous, potassium, sodium, sulphur. Labrador tea samples were analyzed for nitrogen.

Organic and mineral soil samples are only analyzed in year 5 of the monitoring program if there are detectable concentrations of Aroclor PCBs in the overlying live moss layer. Samples are analyzed from the underlying mineral soil (0 to 5 cm and 5 to 15 cm) until Aroclor PCB concentrations are below the laboratory detection limit.

In year 5, other SVOC and VOC compounds may also be analyzed, however, the exact analytical schedule is determined closer to the end of the monitoring program's cycle.

Samples are shipped to the lab in laboratory supplied containers; once received by the lab the samples are prepared appropriately, depending on the analysis.

- all samples slated for pH/EC and total nitrogen analysis are dried in an oven at an approximate temperature of 55°C and then homogenized in a metal grinder
- vegetation samples slated for metals analysis are dried at 55°C and then cut with ceramic scissors
- all samples slated for organic parameter analysis are analyzed as received

Metal, nutrients, and total nitrogen results are reported on a dry weight basis. Organic results for vegetation (live moss and Labrador tea) samples are reported on a wet weight basis with the exception of Aroclor PCB analysis which is reported on a dry weight basis. All analysis completed in the underlying organic or mineral soil is reported on a dry weight basis. The practices for reporting dry versus air dried weight are consistent with historical conventions.

Analytical methods are summarized in Table C.

TABLE C Analytical Methods

Parameter	Analytical Method
Moss	
Metals	Extracted using "Metals in Animal Tissue and Vegetation (Biota) - Prescriptive" Method/Analyzed using USEPA 200.3/6020A[2]
Mercury	Extracted using "Metals in Animal Tissue and Vegetation (Biota) - Prescriptive" Method/Analyzed using USEPA 200.3, 245.7
pH	Saturated Paste Extract
EC	Saturated Paste Extract
Nutrients	Extracted using "Metals in Animal Tissue and Vegetation (Biota) - Prescriptive" Method/Analyzed using USEPA 200.3/6020A[2]
Total (Aroclor) PCBs	EPA 3570/8082
PCBs (HRMS)	USEPA 1668C[1]
PCDD/PCDF	USEPA 1613B
Labrador Tea	
Metals	Extracted using "Metals in Animal Tissue and Vegetation (Biota) - Prescriptive" Method/Analyzed using USEPA 200.3/6020A[2]

Parameter	Analytical Method
Mercury	Extracted using "Metals in Animal Tissue and Vegetation (Biota) - Prescriptive" Method/Analyzed using USEPA 200.3, 245.7
Nutrients	Extracted using "Metals in Animal Tissue and Vegetation (Biota) - Prescriptive" Method/Analyzed using USEPA 200.3/6020A[2]
Nitrogen	Total Nitrogen by combustion
PCBs (LRMS)	SIM GC/LRMS (extracted as per Method 1668C and analyzed using CARB428)
PCBs (HRMS)	USEPA 1668C[1]
PCDD/PCDF	USEPA 1613B
Moss Bags	
Metals	Extracted using "Metals in Animal Tissue and Vegetation (Biota) - Prescriptive" Method/Analyzed using USEPA 200.3/6020A[2]
Mercury	Extracted using "Metals in Animal Tissue and Vegetation (Biota) - Prescriptive" Method/Analyzed using USEPA 200.3, 245.7
Soil	
Total (Aroclor) PCBs	EPA 3570/8082

[1] Where the PCB 126 and 169 peaks appeared to be broader than expected on the chromatogram the sample extract was passed through a carbon column to better resolve the co-planar PCB fraction

[2] Collision cell interface was used on ICPMS

3.4 Archiving

Any unused sample volume which remains following sample analysis are air dried, placed in sealed coolers or boxes and sent to the Alberta Energy Regulator's Core Research Centre in Calgary, Alberta.

Samples should be labelled so the label remains visible over the long term. A sample legend should be included with each shipment indicating the sample ID, corresponding plot ID, sample matrix, date collected and volume of sample archived. This sample legend should also be provided to SUEZ for their records.

3.5 Data Analysis

The purpose of the data analysis is to identify any increasing trends in the data that may be reflective of emissions from the SHTC or decreasing trends in those chemicals which have accumulated in the terrestrial environment from past emissions. Contaminant data tends to be asymmetrically distributed; for simplicity, statistical measures that are robust to non-normal distributions were used (median, minimum, maximums, and percentiles) when evaluating data from the soil and vegetation plots.

Data analysis is divided into three time periods; short term trends (between years), medium term trends (5 years) and long term trends (>5 years). At the analysts discretion it may be appropriate to further subdivide the longer term trend analysis.

When evaluating the moss bag data and comparing values between depositional zones (Table A; Zones 1 and 2) the data has been normally distributed and the mean and standard error are used to compare average values over time.

TEQs values are calculated for PCDD/PCDF and co-planar PCBs using the World Health Organization's 2005 TEQ factors (Van den Berg et al. 2006) consistent with previous monitoring programs (AMEC 2015). When calculating the TEQ value, non-detect values were set equal to half the laboratory's method detection limit. As TEQ values approach background levels they are more likely to be affected by changes in the detection limit for the congeners used to calculate the TEQ.

The following summarizes the basic data analysis which is completed, it is possible that additional analytical methods are not included here but may be warranted.

3.5.1 Annual Monitoring Plots

The following analytical approaches are employed when evaluating the Annual Monitoring Plot Data:

- Comparison of the current year's and previous years' data: An increase or decrease of at least 40% was considered to be a substantial change. A value of 40% was selected as it is a typical amount of variability in soil samples and is commonly used when evaluating duplicate soil data. Also this value was chosen based on the relative percent difference (RPD) reported for blind duplicate samples in current and past monitoring events (Matrix 2017).

- Trend graphs are used to compare the concentrations of selected parameters over a 5-year period at plots 4, 11, 70, 71, 109, and 114. These plots are considered to be representative of conditions immediately surrounding the SHTC (plots 4, 11, 109, and 114) and background conditions (plots 70 and 71). Consistent with previous programs, plot 70 (organic parameter trend graphs) or plot 71 (inorganic parameter trend graphs) are included for comparison. The purpose of this analysis is to evaluate any temporal trends in the data.

- Mann-Kendall analysis (Kendall 1975) is used to confirm any significant long-term temporal trends (p-value < 0.05) that may be evident in the data. As Mann-Kendall requires at least six data points, it is not suitable for detecting short-term trends.

- Box plots are used to compare the most recent data against historical medians and ranges. The box plots also allow for spatial comparisons between plots. The sample plots shown on the box plots are arranged based on distance from the SHTC, and historically spatial trends in chemical concentrations have been related to distance from the facility (AMEC 2015).

3.5.2 Moss Bag

The following analytical approaches were employed for the moss bag data:

- Trend graphs are used to compare the concentrations of selected parameters over a 5-year period at plots 4, 11, 15, 20, and 71. These plots are considered to be representative of conditions immediately surrounding the SHTC (plots 4, 11, 15, and 20) and background conditions (plot 71). As plots 109 and 114 do not have moss bags, the nearest moss bag plots (plots 15 and 20) are used to relate changes in moss bag chemical concentrations to the live moss and Labrador tea. The purpose of this analysis is to evaluate any temporal trends in the data.

- Trend graphs are prepared for Zones 1 and 2 using the average values reported during each sampling event. The 25^{th} and 75^{th} percentile values obtained for each parameter in the unexposed moss samples since 2019 are used as control bounds on the graph.

- The average values for metal parameters of concern in Zones 1 and 2 and the unexposed moss bags are compared to determine if there are any significant differences using analysis of variance (ANOVA). If the average values for these three groups are significantly different, the Tukey test is used to complete additional post-hoc pairwise comparisons of the groups to determine more precisely which groups are considered to be significantly different. Normality and homogeneity of variances between groups are evaluated using the Shapiro-Wilk and Levene's tests. The data for some chemical parameters may have to be log transformed if the distribution of the data does not meet the assumptions of normality or the variances between groups is not homogenous.

- Mann-Kendall analysis (Kendall 1975) is used to confirm any significant long-term temporal trends (p-value < 0.05) for each zone using the cenken method, which allows for the analysis of censored data (non-detects).

3.5.3 Lichen Health Data

Lichen health is evaluated by comparing the current health rating at each site to the previous years rating. A representative photograph of each site and subsite are appended to the report. The digital image files should be stored in jpg format for a period of 10 years.

Area measurements of the lichen have not been completed since 1991, however, photos should be taken with a scale indicator (quadrat) should it become necessary to determine and compare the lichen's surface area.

3.5.4 Expanded Program Plots

PCB concentrations in the Labrador tea leaves at the expanded and annual plots are contoured and a figure is generated depicting the spatial concentrations of PCBs. Previously, an inverse distance weighting approach has been employed to interpolate between data points, although other statistical methods can be used if appropriate. The spatial extent of PCB concentrations relative to the treatment center is compared to contours of historical spatial data from 2004 onwards to determine if there has been a change in the spatial extent of PCB accumulation in the vegetation.

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Easting (m)

611000 612000 613000 614000 615000 616000 617000 618000 619000 620000 621000 622000

Northing (m)

6076000 6075000 6074000 6073000 6072000 6071000 6070000 6069000 6068000 6067000

N

Saulteaux River

Cowper Creek

67-9-W5

67-8-W5

66-9-W5

66-8-W5

MB50 Plot 81 MB26 Plot 121 MB19 Plot 26 Plot 28 Plot 15 MB11 Plot 11 Plot 1 MB2 Plot 2 Plot 104 Plot 6 Plot 12 MB15 MB1 Plot 109 Plot 4 MB4 MB5 Plot 5 Plot 102 Plot 8 Plot 7 Plot 9 Plot 123 MB9 Plot 13 MB14 Plot 14 Plot 16 Plot 29 Plot 402 Plot 110 Plot 114 Plot 103 Plot 80 MB20 Plot 27 Plot 117 MB24 (Former) MB24 MB22

Road
Annual Monitoring Location
Expanded Program Monitoring Location
Moss Bag Monitoring Location

1:40,000 metres
420 0 420 840
NAD 1983 UTM Zone 11N

Reference: Data obtained from AltaLIS © Government of Alberta used under license. GDM transportation infrastructure data provided by IHS © 2017 used under license. Imagery (2014) obtained from Valtus © (2017) used under license.

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ENVIRONMENT & ENGINEERING

SUEZ Canada Waste Services Inc.
Swan Hills Treatment Centre - Soil and Vegetation Monitoring Program

Soil and Vegetation Plots

Date:	Project:	Submitter:	Reviewer:
Sep 2017	15867	L. Oiffer	K. Ostermann

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Figure 1

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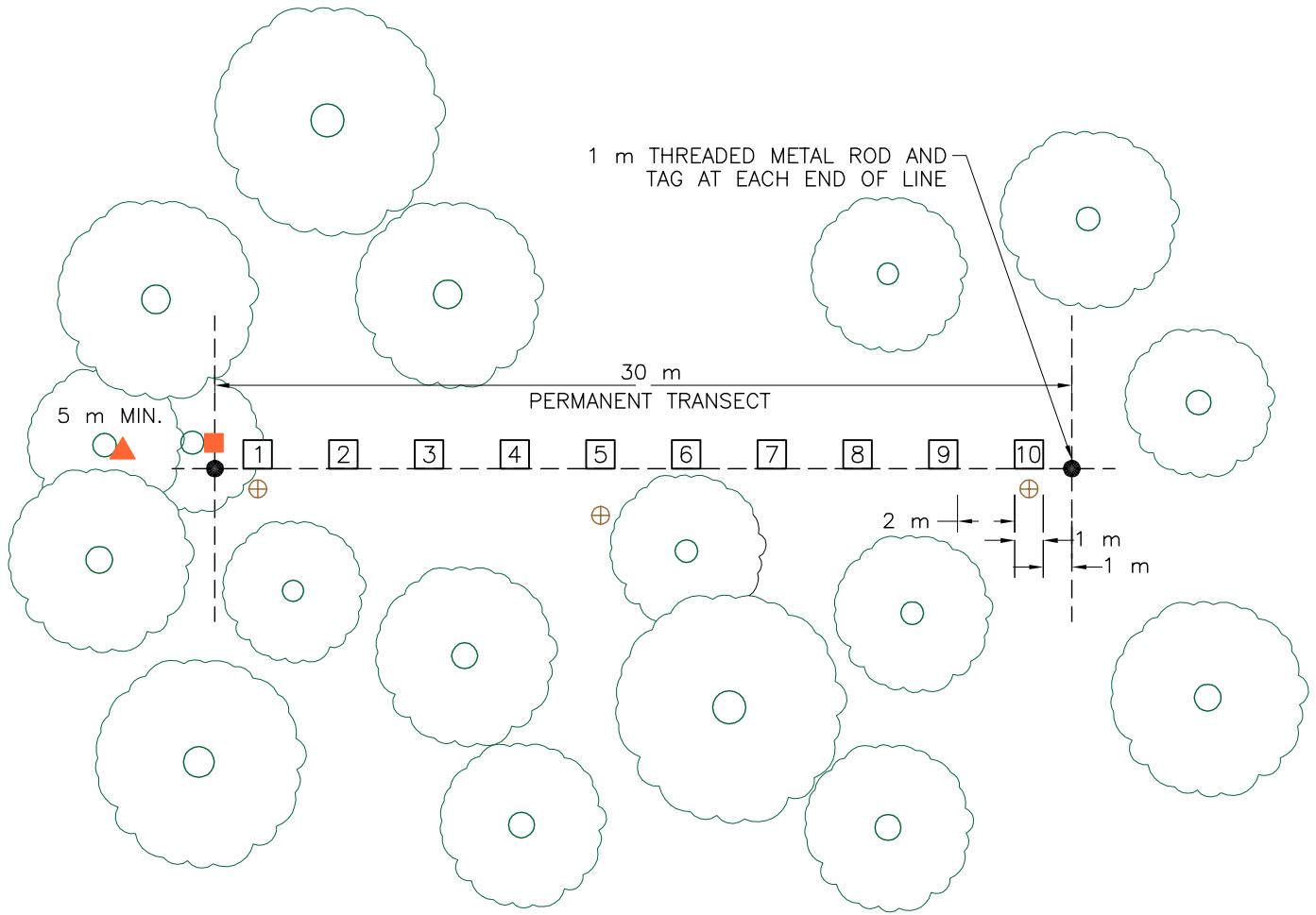
F:\15867\Drafting\2016\15867-VEG-16.cdr



LEGEND

- 9 — VEGETATION QUADRANTS
- ⊕ — **Soil/Live Moss Sampling Site**
- ▲ — ORANGE TRIANGLE (40x40 cm) ATTACHED TO A TREE TRUNK IS IN GENERAL AREA OF TRANSECT ORIGIN
- ■ — ORANGE RECTANGULAR TAG (5x7 cm) ATTACHED TO A TREE TRUNK – TRANSECT START WITHIN 1.0 m OF TREE
- ○ — TREE CANOPY

Reference: Reproduced from HBT Agra Ltd. 1994.

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

SUEZ Canada Waste Services Inc.
Swan Hills Treatment Centre W1/2-06-067-08 W5M

Typical Soil and Vegetation Sampling Plot

Date:	Project:	Technical:	Reviewer:	Drawn:
January 2016	15867-VEG-16	L. Oiffer	K. Ostermann	G. Stein

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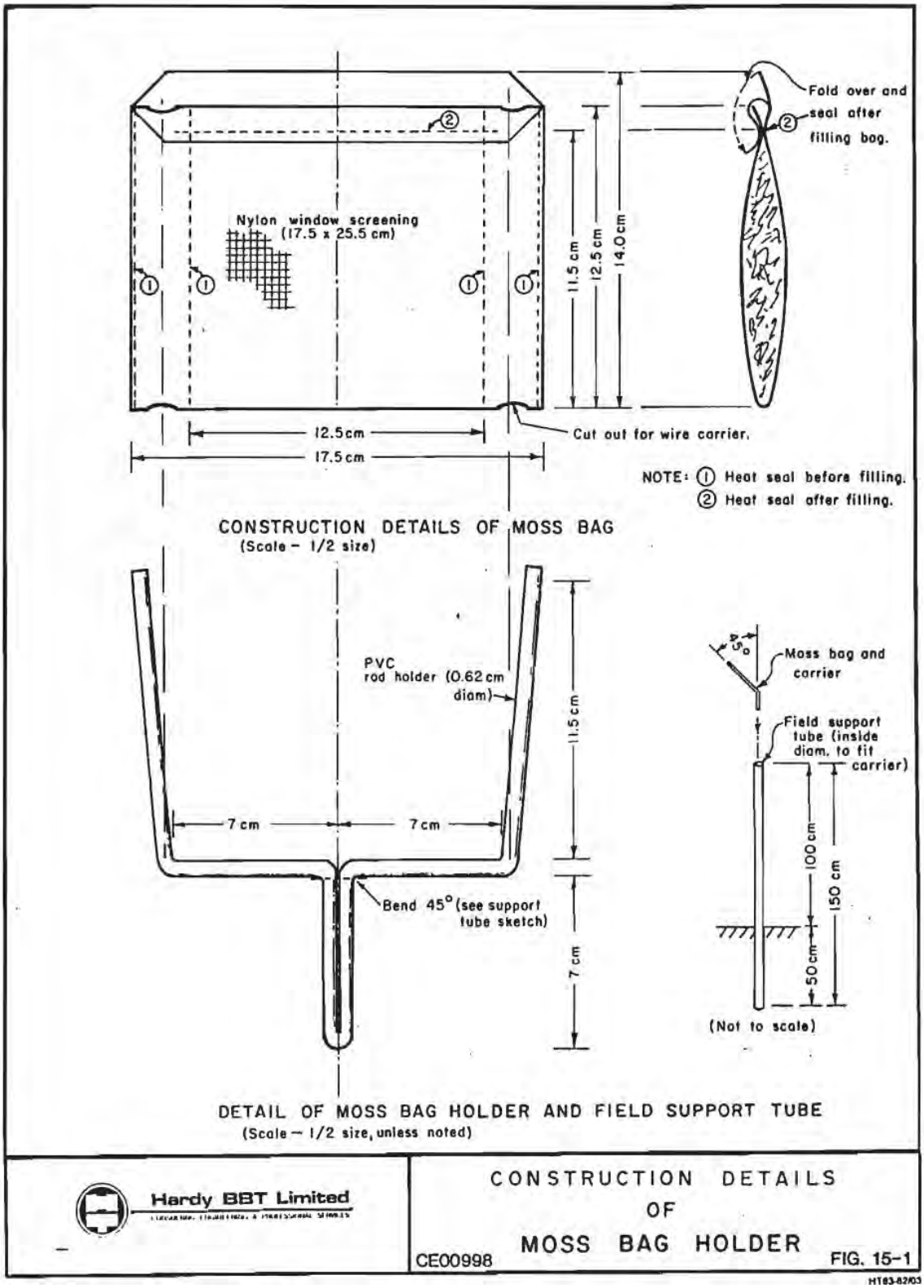
Figure 2



Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

SUEZ – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

Moss Bag Construction

Date:	Project:	Technical:	Reviewer:	Drawn:
	15867-503			

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Figure 3

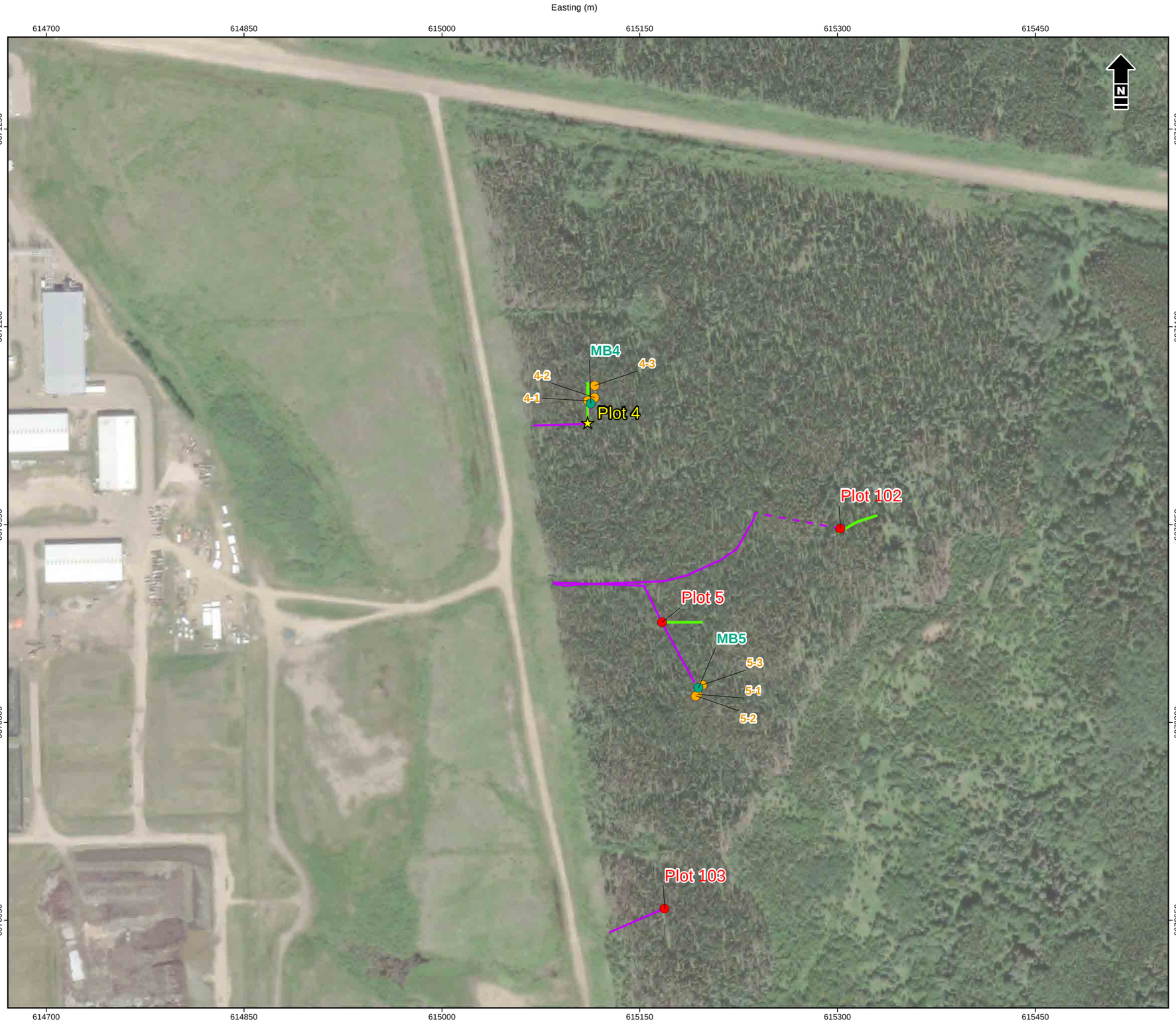
TABLE 1 Changes to the Monitoring Program

Year Initiated	Description (Soils and Vegetation Monitoring Program)
Pre-Operational (Baseline) Monitoring	
1984	Mapped vegetation/soil units (ecosites) in 8 km^2 area around the plant site.
1985	Select and sample three major ecosites; data included: 1. Vegetation cover. 2. Chemical analysis of vegetation tissue: Macronutrients % (calcium, potassium, magnesium, nitrogen, phosphorus, sulphur); micronutrients (boron, chloride, cobalt, copper, iron, manganese, molybdenum, sodium, zinc); inorganic trace elements (aluminum, barium, beryllium, cadmium, chromium, fluoride, lead, mercury, nickel, silver, titanium, tungsten, vanadium); inorganic trace elements (cyanide, polychlorinated biphenyls [PCBs], phenol). 3. Chemical analysis of soils: pH, electrical conductivity, soluble cations and anions, metals (aluminum, arsenic, barium, beryllium, boron, cadmium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, molybdenum, nickel, phosphorus, potassium, silver, sodium, tin, titanium, tungsten, vanadium, and zinc); fluoride; cyanide; phenols; PCBs, pesticides, EPA priority pollutants, naturally occurring organic compounds; and hydrocarbons.
1986	Vegetation stress assessment in 200 km^2 area around plant; data included: 1. Aerial photograph interpretation of stressed areas. 2. Field assessment of selected stress areas.
1986	Establishment of lichen – moss grid in 200 km^2 area around plant; data included: 1. Lichens – area measurements. 2. Mosses – analysis for trace elements.
Operational Monitoring	
1988	Map vegetation/soil units (ecosites) in area defined by plume dispersion model (120 km^2).
1988	Select and sample three major ecosites (including baseline plots) within the plume deposition zones. Data included: 1. Chemical analysis of vegetation tissue. 2. Chemical analysis of soils.
1988	Realignment of lichen – moss grid within the plume deposition zones. Data included: 1. Lichens – area measurements. 2. Mosses – analysis for trace elements.

Year Initiated	Description (Soils and Vegetation Monitoring Program)
1991	Program revised to reduce sampling of soil and vegetation plots from 40 to 20 plots for organic analysis and specifically only 12 plots for total PCB analysis. Moss bag and lichen plots reduced from 23 to 15. Vegetation health assessment completed in 100 km^2 area in 1991; data included air photo interpretation and field assessment of stressed areas.
1997/1998	Program expanded to include nine regional plots in 1997 and 1998. Additional receptors sampled including: willow, berries, tree lichens, and snow sampled between 1997 and 1998. Vegetation health assessment was completed in 1997. Winter sampling and chemical analysis at selected plots in 1997 and 1998.
2000	Program revised to reduce sampling of soil and vegetation plots to ten for inorganic and organic chemical analysis. Added congener specific PCB and dioxin and furan analysis. Expanded program to be implemented every 5 years (2004, 2009, 2014, and 2019) with an additional 22 plots to be sampled. Added additional triggers for further monitoring.
2004	Completed a vegetation health assessment in 2004 only.
2006	Program schedule revised to spring (April/May) so Labrador tea leaves sampled after 1 year of exposure. Moss bag and lichen program exposure period extended to 2 years.
2007	Lichen and moss bag Site 22 was moved closer to the SHTC into a non-productive forest stand to avoid being disturbed by forest harvesting activities.
2009	The vegetation health assessment was removed from the expanded program. Relocated the soil and vegetation Plot 70 to be consistent with the wildlife plot. Re-sampled the 10 standard plots and plots 1, 2, 15, and 104 following a fire at the SHTC which occurred on July 11, 2009.
2010	In addition to the regular sampling program at ten sites in the spring of 2010, four plots (1, 2, 15, and 104) sampled in 2009 related to the SHTC fire were sampled again in July 2010. The analytical scope was increased to include congener PCBs and dioxins/furans at each sampling location.
2012	Implemented preliminary interpretation of the results as soon as they are available to assist with monitoring of trends recently observed in wildlife results from plots 109 and 110. Reviewed aroclor and congener-specific PCB analysis and a decision was made to analyze for PCBs using both methods.
2013	Plot #28 was re-established due to its proximity to a proposed oil and gas lease.

Year Initiated	Description (Soils and Vegetation Monitoring Program)
2015	Aroclor PCB analyses deleted from the standard monitoring program scope. Plot 28 was added to the standard program for both soils and vegetation and sampled in 2015 only to confirm Aroclor PCB concentrations reported in 2014.
2017	An acid washing procedure was trialled on the moss used in the moss bags, to see if it would be effective in lowering the concentration of metals in the unexposed moss. Acid washed moss bags were deployed at three sites and preliminary results showed that metal concentrations in the unexposed moss were reduced. A dustfall sampler trial was performed to see if they would be an effective replacement for moss bags. Dustfall samplers were deployed at 3 sites and based on the results of this limited trial it was determined that this methodology appears to be more suited to sampling coarser windblown particulates and is not adaptable to sampling finer particulates that would be associated with metal deposition from the SHTC's emissions.
2018	Acid-washed and conventional moss bag media were deployed at all sites for analysis in 2019. A comparison between the current method of extracting metals from soil (USEPA Method 3050) and a more common method (Strong Acid Leachable Metals) indicated that there was no significant difference between the results obtained using either method.
2019	A further comparison was made between the SALM method, which is for extracting metals from soils, and USEPA method 200.3, which is for tissue. There was no significant difference between the methods. A decision was made to switch to USEPA 200.3 when extracting metals from the moss and Labrador tea samples as the detection limits were lower. The acid washing trial was completed and a letter was prepared recommending that moss bags be acid washed as a preparation step to reduce the variability of metal concentrations in the unexposed moss. PAHs, VOCs and SVOCs were analyzed in live moss samples An additional background location was sampled to ensure a better representation of background PAH, VOC and SVOC levels. Labrador tea leaves from the expanded program plots were analyzed for PCBs using a low-resolution mass spectrometry method. The green leafy portion of the live moss at select annual plots was clipped and analyzed for congener PCBs and PCDD/DF.

APPENDIX B
Plot Location Maps



Approximate Transect Orientation
Approximate Trail
Trail
Annual Monitoring Location
Expanded Program Monitoring Location

Vegetation Point

Lichen
Moss Bag

*Note: All trails are marked with a combination of white 3M Reflective Strips, pink tree paint and pink/ blue flagging. The entrance of some trails are marked either by white 3M Reflective Strips or a yield sign.

Reference: Data obtained from AltaLIS © Government of Alberta used under license. GDM midstream and transportation infrastructure data and well data provided ©2023 by S&P Global Commodity Insights, a division of S&P Global Inc. All rights reserved.

1:3,000 metres
30 0 30 60
NAD 1983 UTM Zone 11N

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SUEZ Canada Waste Services Inc.
Swan Hills Treatment Centre - Soil and Vegetation Monitoring Program

Field Access Map
MB4, MB5, Plot 4, Plot 5, Plot 102, Plot 103

Date:	Project:	Submitter:	Reviewer:
May 2023	15867	L. Oiffer	K. Ostermann

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Figure 1a

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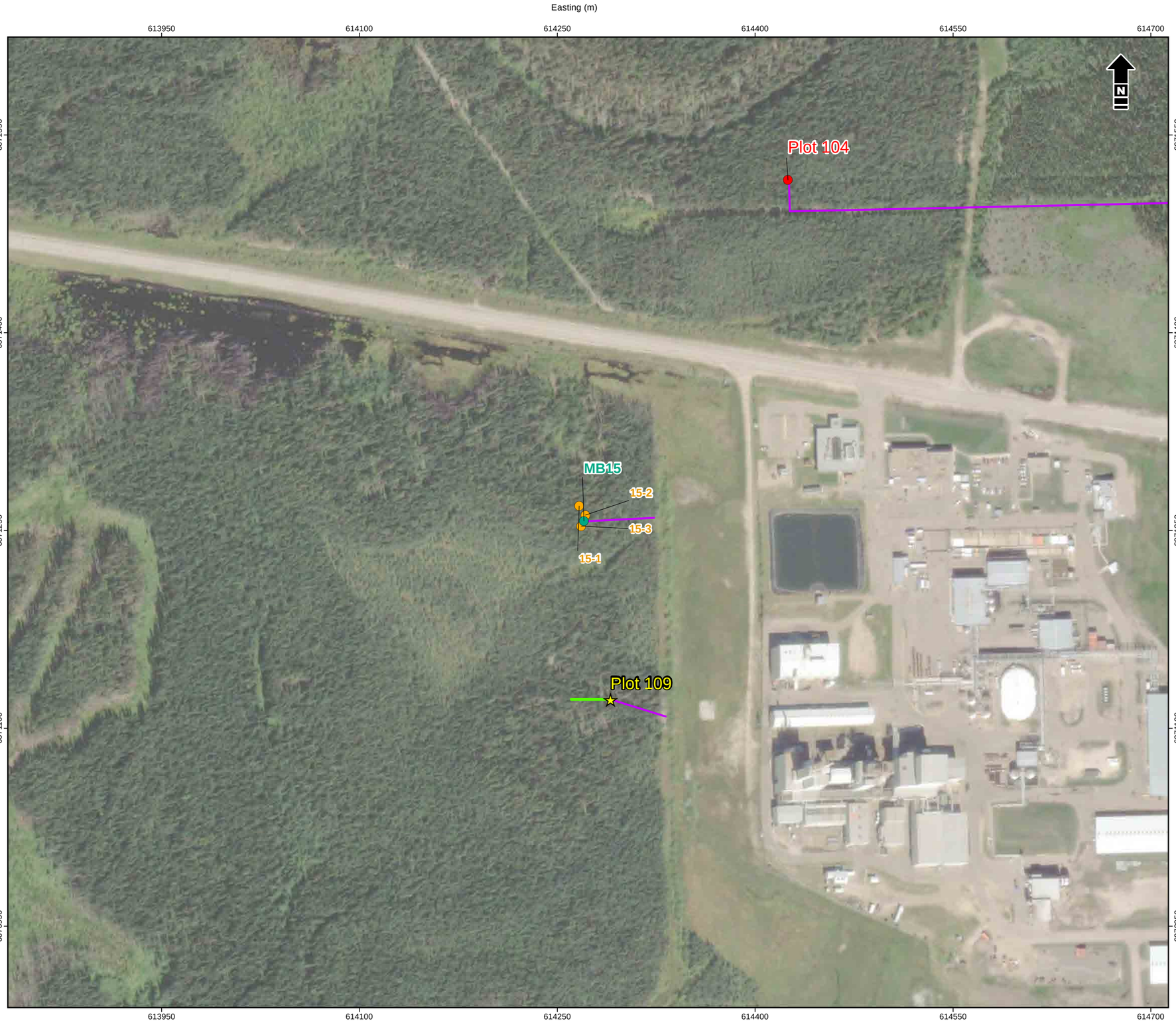

Approximate Transect Orientation
Trail
Annual Monitoring Location
Expanded Program Monitoring Location

Vegetation Point

Lichen
Moss Bag

*Note: All trails are marked with a combination of white 3M Reflective Strips, pink tree paint and pink/ blue flagging. The entrance of some trails are marked either by white 3M Reflective Strips or a yield sign.

1:3,000 metres
30 0 30 60
NAD 1983 UTM Zone 11N

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ENVIRONMENT & ENGINEERING

SUEZ Canada Waste Services Inc.
Swan Hills Treatment Centre - Soil and Vegetation Monitoring Program

Field Access Map
MB15, Plot 104, Plot 109

Date:	Project:	Submitter:	Reviewer:
May 2023	15867	L. Oiffer	K. Ostermann

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Figure 1b

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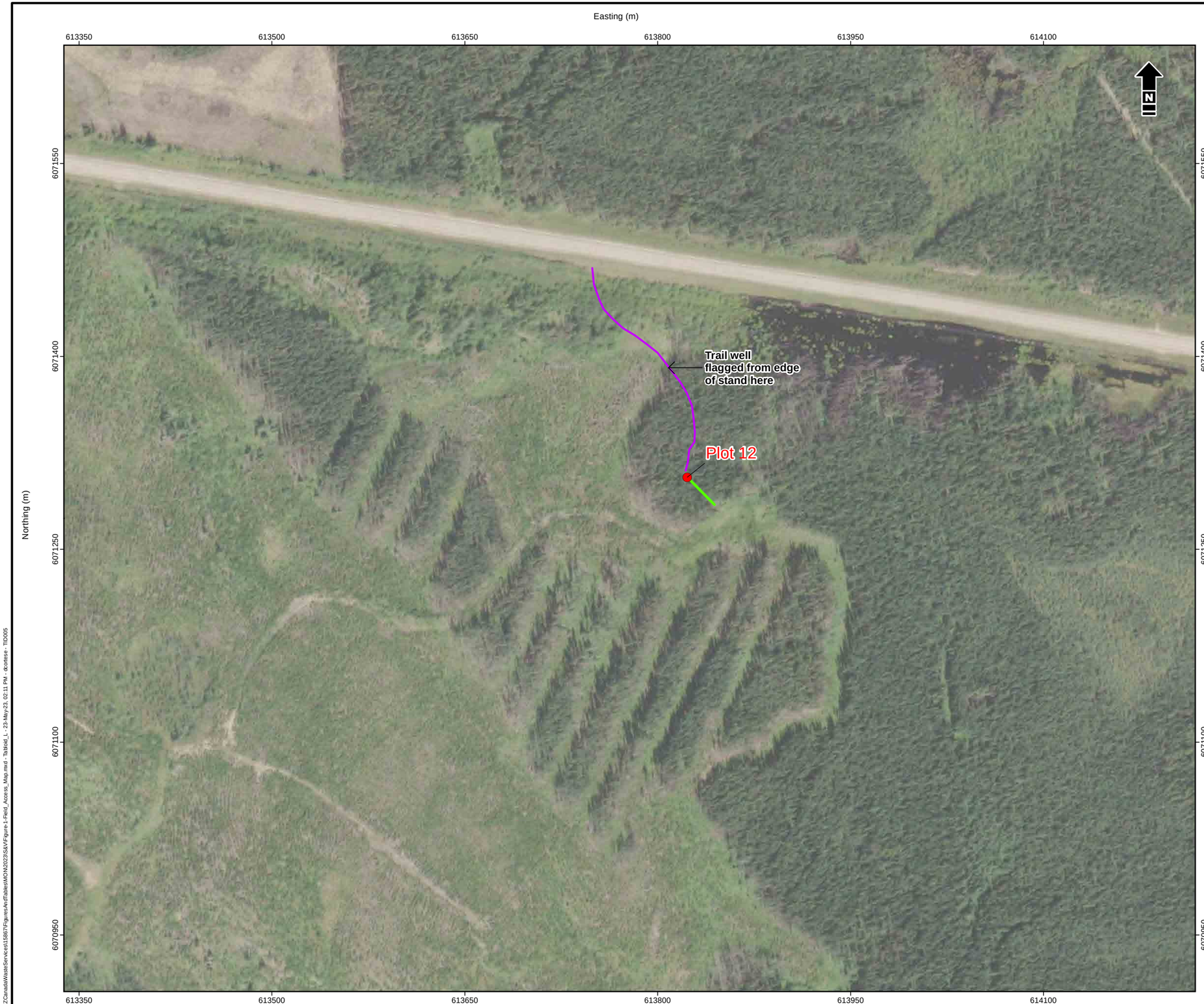

Approximate Transect Orientation

Trail

Expanded Program Monitoring Location

*Note: All trails are marked with a combination of white 3M Reflective Strips, pink tree paint and pink/ blue flagging. The entrance of some trails are marked either by white 3M Reflective Strips or a yield sign. Flagging near roadway is sometimes degraded.

1:3,000 metres

30 0 30 60

NAD 1983 UTM Zone 11N

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ENVIRONMENT & ENGINEERING

SUEZ Canada Waste Services Inc.
Swan Hills Treatment Centre - Soil and Vegetation Monitoring Program

Field Access Map
Plot 12

Date:	Project:	Submitter:	Reviewer:
May 2023	15867	L. Oiffer	K. Ostermann

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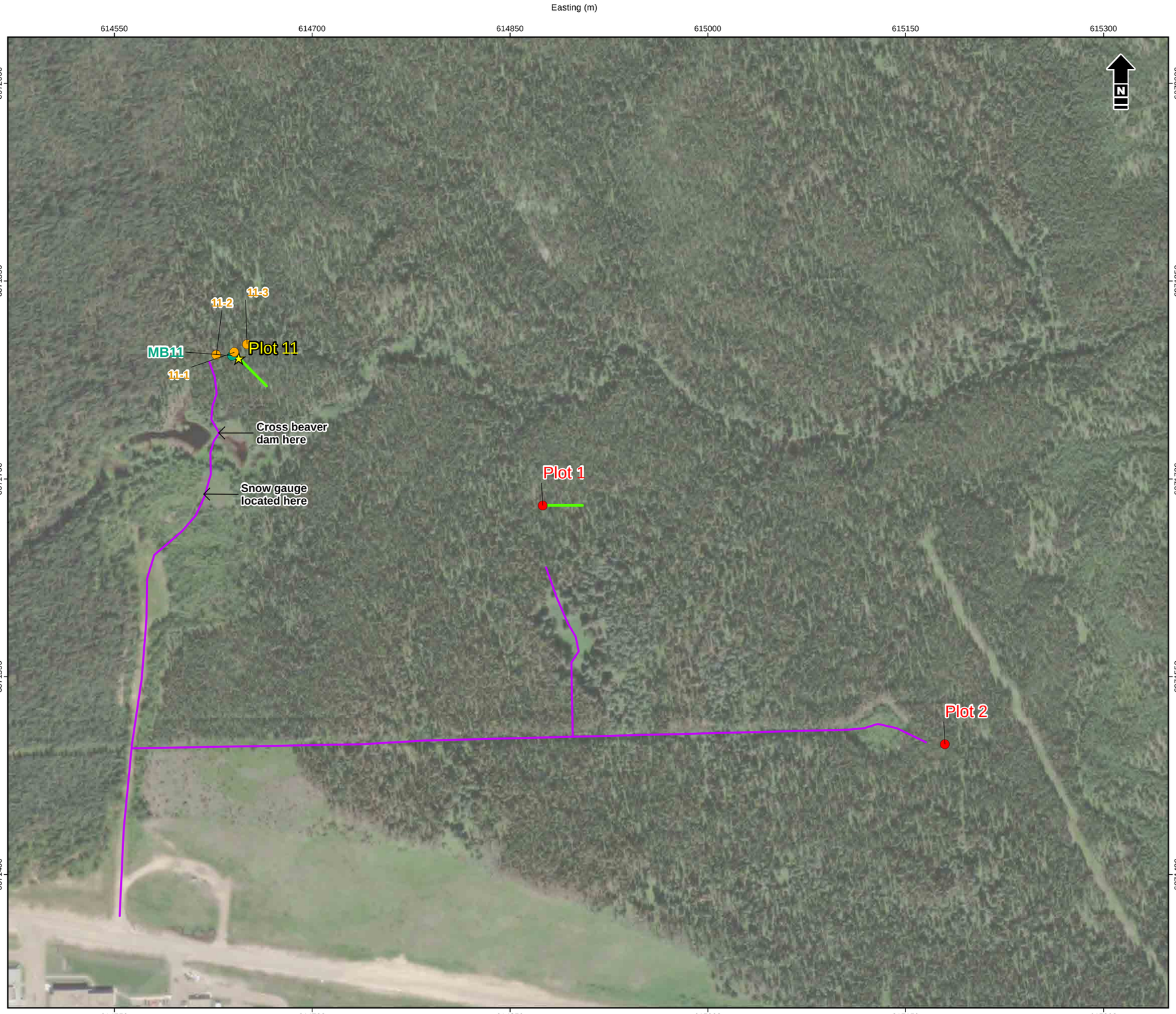
Figure 1c

I:\SUEZCanadaWasteServices\15867\Figures\ArcDrafts\MXD\2023\SS&V\Figure-1-Field_Access_Map.mxd - TaWood_L - 23-May-23, 02:11 PM - dcortese - TID005



Approximate Transect Orientation
Trail
Annual Monitoring Location
Expanded Program Monitoring Location

Vegetation Point

Lichen
Moss Bag

*Note: All trails are marked with a combination of white 3M Reflective Strips, pink tree paint and pink/ blue flagging. The entrance of some trails are marked either by white 3M Reflective Strips or a yield sign.

1:3,000 metres
30 0 30 60
NAD 1983 UTM Zone 11N

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Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

SUEZ Canada Waste Services Inc.
Swan Hills Treatment Centre - Soil and Vegetation Monitoring Program

Field Access Map
MB1, MB2, MB11, Plot 1, Plot 2, Plot 11

Date:	Project:	Submitter:	Reviewer:
May 2023	15867	L. Oiffer	K. Ostermann

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Figure 1d

I:\SUEZCanadaWasteServices\15867\Figures-And-Tables\MON2023\SAV\Figure 1-Field_Access_Map.mxd - TaiBod_L - 23-May-23, 02:11 PM - dcortese - TIO005

Easting (m)

613950 614100 614250 614400 614550 614700

Northing (m)

6070950 6070800 6070650 6070500 6070350

- Approximate Transect Orientation
- Trail
- Annual Monitoring Location
- Expanded Program Monitoring Location

*Note: All trails are marked with a combination of white 3M Reflective Strips, pink tree paint and pink/ blue flagging. The entrance of some trails are marked either by white 3M Reflective Strips or a yield sign.

1:3,000 metres

30 0 30 60

NAD 1983 UTM Zone 11N

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Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

SUEZ Canada Waste Services Inc.
Swan Hills Treatment Centre - Soil and Vegetation Monitoring Program

Field Access Map
Plot 80, Plot 110

Date:	Project:	Submitter:	Reviewer:
May 2023	15867	L. Oiffer	K. Ostermann

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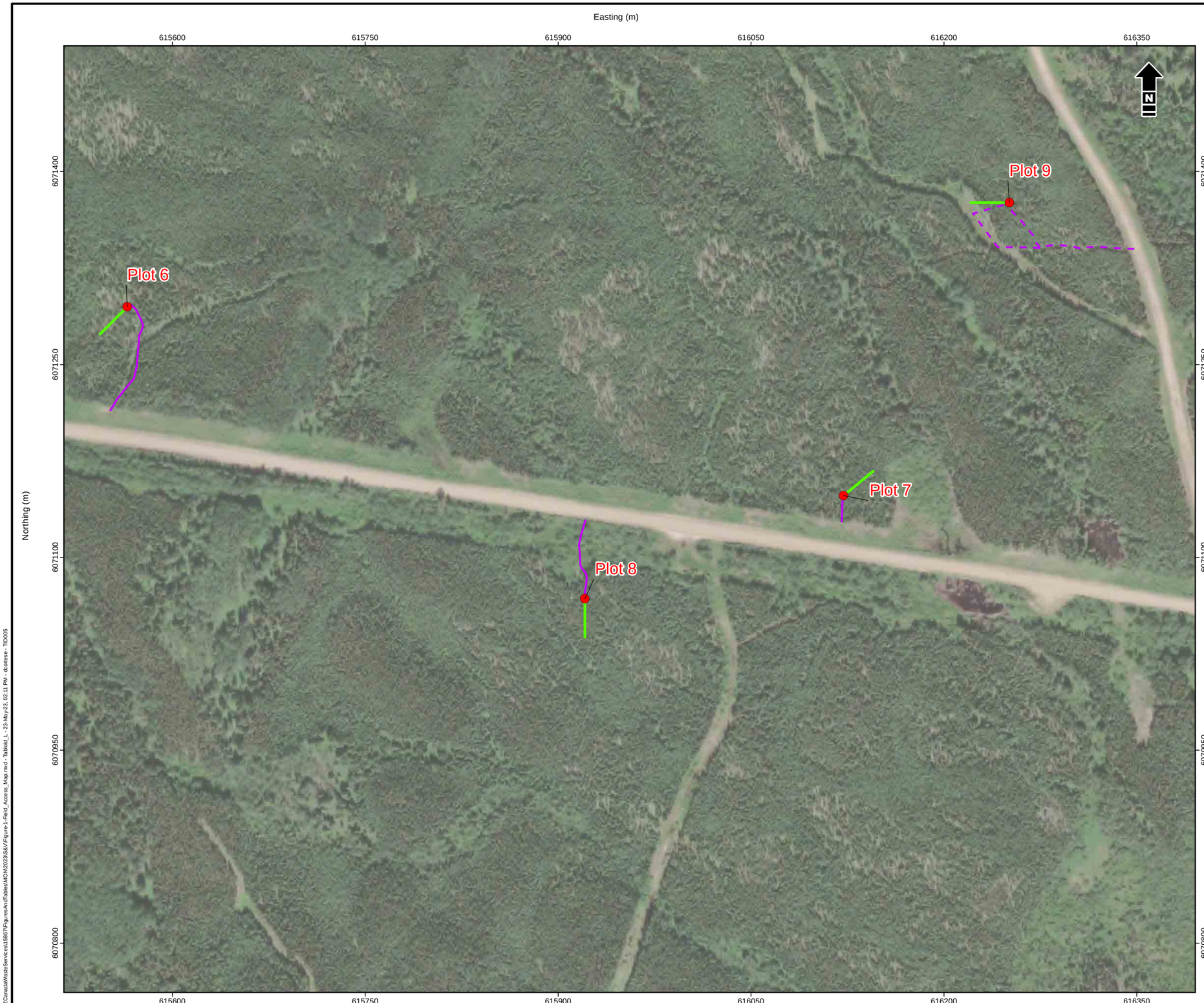
Figure 1e

I:\SUEZCanadaWasteServices\15867\Figures\ArcTables\MON2023\S&V\Figure-1-Field_Access_Map.mxd - TaylorL - 23-May-23, 02:11 PM - dcortese - TID005



Approximate Transect Orientation
Approximate Trail
Trail
Expanded Program Monitoring Location

*Note: All trails are marked with a combination of white 3M Reflective Strips, pink tree paint and pink/ blue flagging. The entrance of some trails are marked either by white 3M Reflective Strips or a yield sign.

1:3,000 metres
30 0 30 60
NAD 1983 UTM Zone 11N

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ENVIRONMENT & ENGINEERING

SUEZ Canada Waste Services Inc.
Swan Hills Treatment Centre - Soil and Vegetation Monitoring Program

Field Access Map
Plot 6, Plot 7, Plot 8, Plot 9

Date:	Project:	Submitter:	Reviewer:
May 2023	15867	L. Oiffer	K. Ostermann

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Figure 1f

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Easting (m)

614400 614550 614700 614850 615000 615150 615300 615450 615600 615750 615900 616050 616200 616350 616500 616650

Northing (m)

6070350 6070200 6070050 6069900 6069750 6069600 6069450 6069300 6069150 6069000 6068850 6068700 6068550

Plot 114

Road passed south pond is ATV/or foot access only

Overgrown cutline - Argo or foot access

MB20

20-2

Plot 27

20-3

20-1

Trail is flagged with white reflective strips east side cutline/cutblock, follow creek to plot 117

Plot 117

Watch out for bridges on trail near MB22, they are in poor condition

22-3

MB22

22-2

22-1

N

- Approximate Transect Orientation
- Approximate Trail
- Trail
- Approximate Transect Orientation (New)
- Annual Monitoring Location
- Expanded Program Monitoring Location

Vegetation Point

- Lichen
- Moss Bag

*Note: All trails are marked with a combination of white 3M Reflective Strips, pink tree paint and pink/ blue flagging. The entrance of some trails are marked either by white 3M Reflective Strips or a yield sign.

1:8,000 metres

80 0 80 160

NAD 1983 UTM Zone 11N

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ENVIRONMENT & ENGINEERING

SUEZ Canada Waste Services Inc.
Swan Hills Treatment Centre - Soil and Vegetation Monitoring Program

Field Access Map
MB20, MB22, Plot 27, Plot 114, Plot 117

Date:	Project:	Submitter:	Reviewer:
May 2023	15867	L. Oiffer	K. Ostermann

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Figure 1g

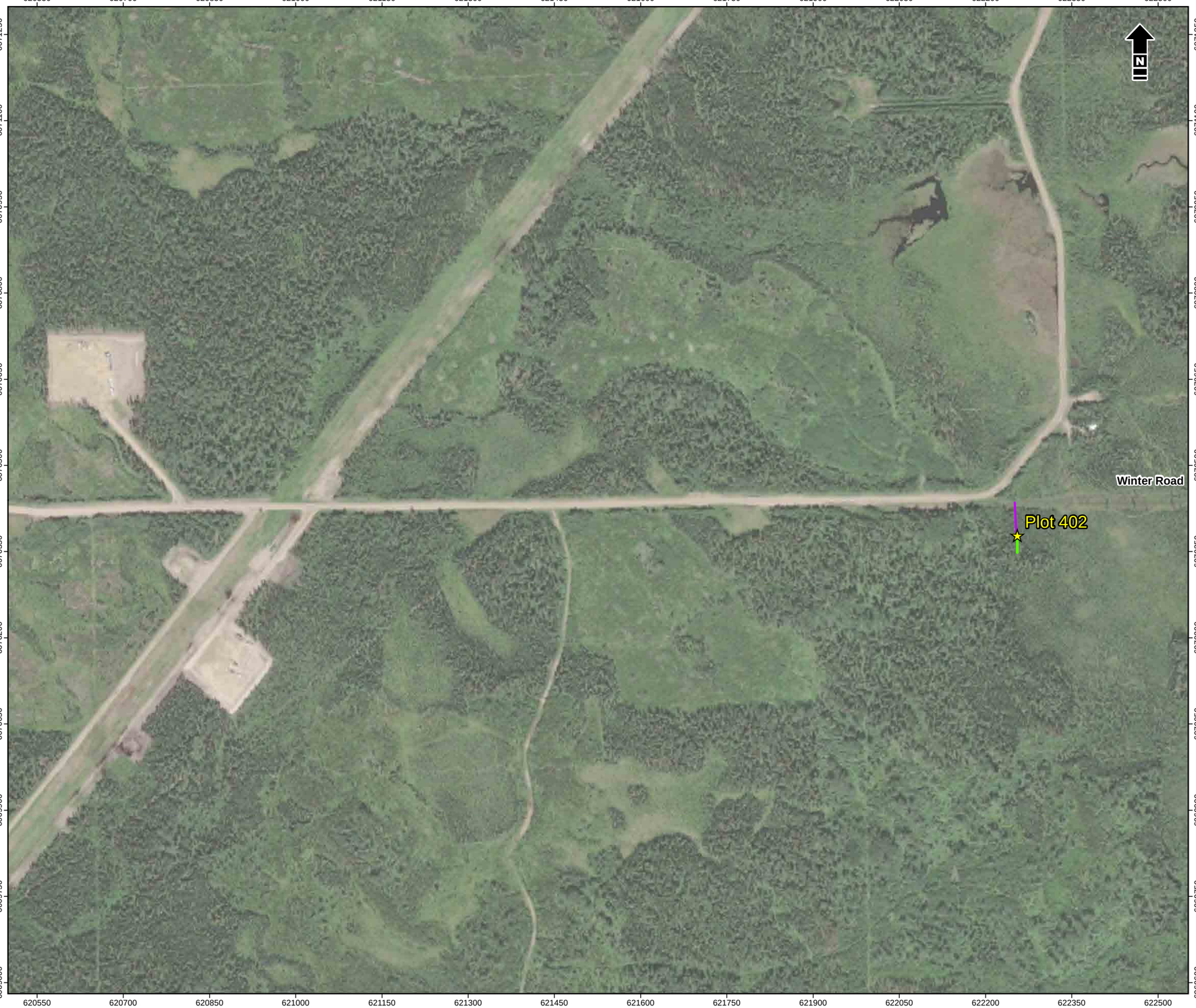
I:\SUEZCanadaWasteServices\15867\Figures-And-Tables\MON2023\SAV\Figure-1-Field_Access_Map.mxd - TaitKed_L - 23-May-23, 02:12 PM - dcortese - TID005

Easting (m)

620550 620700 620850 621000 621150 621300 621450 621600 621750 621900 622050 622200 622350 622500

Northing (m)

6071250 6071100 6070950 6070800 6070650 6070500 6070350 6070200 6070050 6069900 6069750 6069600



Approximate Transect Orientation

Trail

Annual Monitoring Location

*Note: All trails are marked with a combination of white 3M Reflective Strips, pink tree paint and pink/ blue flagging. The entrance of some trails are marked either by white 3M Reflective Strips or a yield sign.

1:7,000 metres

70 0 70 140

NAD 1983 UTM Zone 11N

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Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

SUEZ Canada Waste Services Inc.
Swan Hills Treatment Centre - Soil and Vegetation Monitoring Program

Field Access Map
Plot 402

Date:	Project:	Submitter:	Reviewer:
May 2023	15867	L. Oiffer	K. Ostermann

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Figure 1h

I:\SUEZCanadaWasteServices\15867\Figures\AndTables\MON2023\S&V\Figure 1-Field_Access_Map.mxd - Talford_L - 23-May-23, 02:12 PM - dcortese - TID005

Easting (m)

616950 617100 617250 617400 617550 617700

Northing (m)

6071100 6070950 6070800 6070650 6070500

- Approximate Transect Orientation
- Trail
- Expanded Program Monitoring Location

Vegetation Point

- Lichen
- Moss Bag

*Note: All trails are marked with a combination of white 3M Reflective Strips, pink tree paint and pink/ blue flagging. The entrance of some trails are marked either by white 3M Reflective Strips or a yield sign.

1:3,000 metres

30 0 30 60

NAD 1983 UTM Zone 11N

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Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

SUEZ Canada Waste Services Inc.
Swan Hills Treatment Centre - Soil and Vegetation Monitoring Program

Field Access Map
MB14, Plot 13, Plot 16

Date:	Project:	Submitter:	Reviewer:
May 2023	15867	L. Oiffer	K. Ostermann

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Figure 1i

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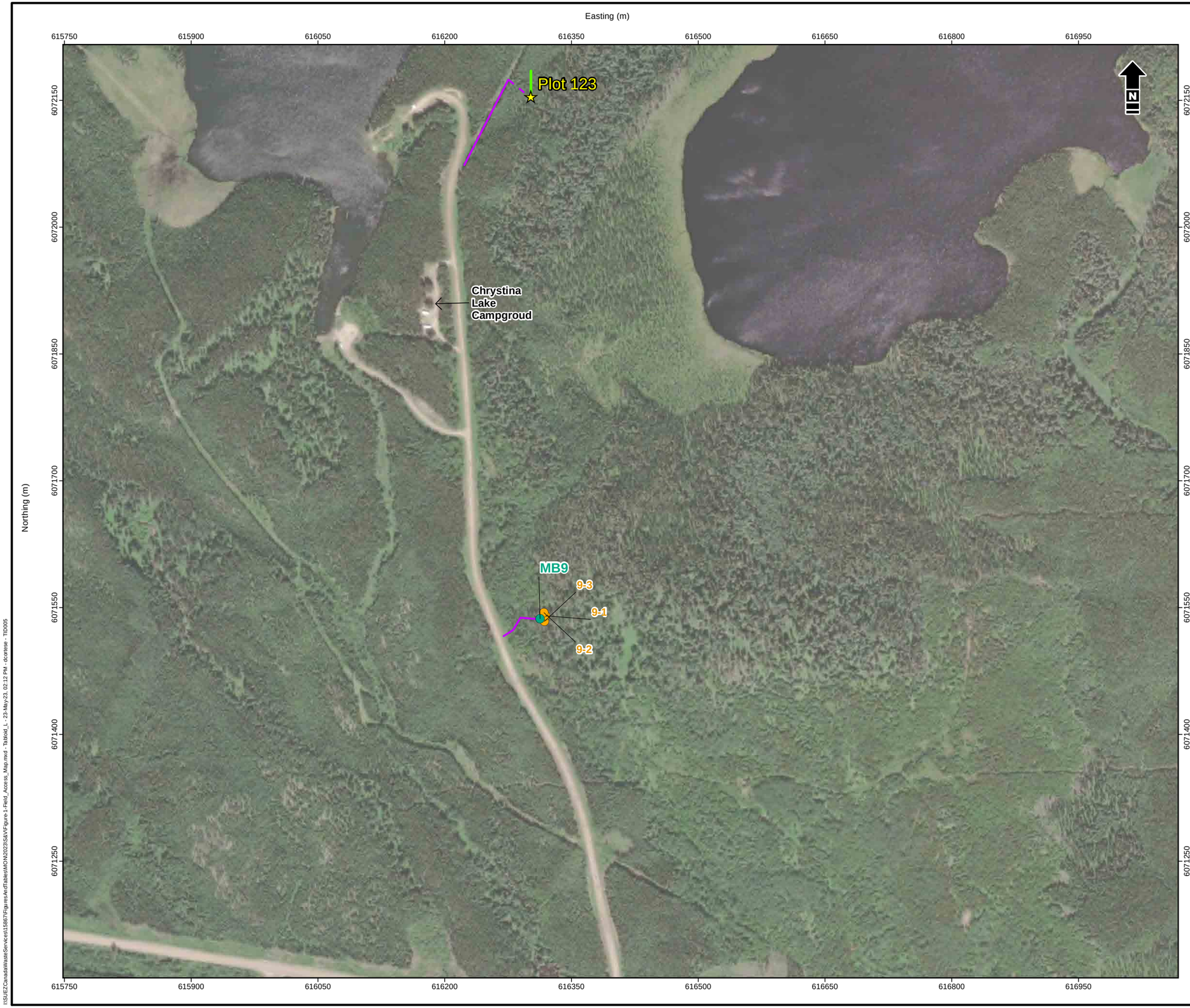

Approximate Transect Orientation
Approximate Trail
Trail
Annual Monitoring Location

Vegetation Point

Lichen
Moss Bag

*Note: All trails are marked with a combination of white 3M Reflective Strips, pink tree paint and pink/ blue flagging. The entrance of some trails are marked either by white 3M Reflective Strips or a yield sign.

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1:4,500 metres
40 0 40 80
NAD 1983 UTM Zone 11N

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

SUEZ Canada Waste Services Inc.
Swan Hills Treatment Centre - Soil and Vegetation Monitoring Program

Field Access Map
MB9, Plot 123

Date:	Project:	Submitter:	Reviewer:
May 2023	15867	L. Oiffer	K. Ostermann

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Figure 1j

I:\SUEZCanadaWasteServices\15867\Figures\ArcMaps\MXD\2023\S&V\Figure-1-Field_Access_Map.mxd - Tabloid_L - 23-May-23, 02:12 PM - dcantese - TID005

Easting (m)

613200 613350 613500 613650 613800 613950 614100 614250 614400 614550 614700

Northing (m)

6072900 6072750 6072600 6072450 6072300 6072150 6072000 6071850 6071700 6071550

N

Cutline is Wet
Wear Boots

Plot 121

Plot 15

Access from clearing off road small Telus type pedestal at entrance

MB11

11-3

11-1

11-2

- Approximate Transect Orientation
- Trail
- Expanded Program Monitoring Location

Vegetation Point

- Lichen
- Moss Bag

*Note: All trails are marked with a combination of white 3M Reflective Strips, pink tree paint and pink/ blue flagging. The entrance of some trails are marked either by white 3M Reflective Strips or a yield sign. Found 2 marked locations for Plot 121 in 2019 - there is a location situated further north of the actual plot that is marked with a metal tag but nothing else and is not considered to be the actual plot.

1:6,000 metres

60 0 60 120

NAD 1983 UTM Zone 11N

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Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

SUEZ Canada Waste Services Inc.
Swan Hills Treatment Centre - Soil and Vegetation Monitoring Program

Field Access Map
Plot 15, Plot 121

Date:	Project:	Submitter:	Reviewer:
May 2023	15867	L. Oiffer	K. Ostermann

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Figure 1k

I:\SUEZCanadaWasteServices\15867\Figures\ArcTables\MON2023\S&V\Figure-1-Field_Access_Map.mxd - TaylorL_L - 23-May-23, 02:12 PM - dcontese - TID005

Approximate Transect Orientation

Trail

Expanded Program Monitoring Location

*Note: All trails are marked with a combination of white 3M Reflective Strips, pink tree paint and pink/ blue flagging. The entrance of some trails are marked either by white 3M Reflective Strips or a yield sign.

1:3,000 metres

30 0 30 60

NAD 1983 UTM Zone 11N

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Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

SUEZ Canada Waste Services Inc.
Swan Hills Treatment Centre - Soil and Vegetation Monitoring Program

Field Access Map
Plot 28

Date:	Project:	Submitter:	Reviewer:
May 2023	15867	L. Oiffer	K. Ostermann

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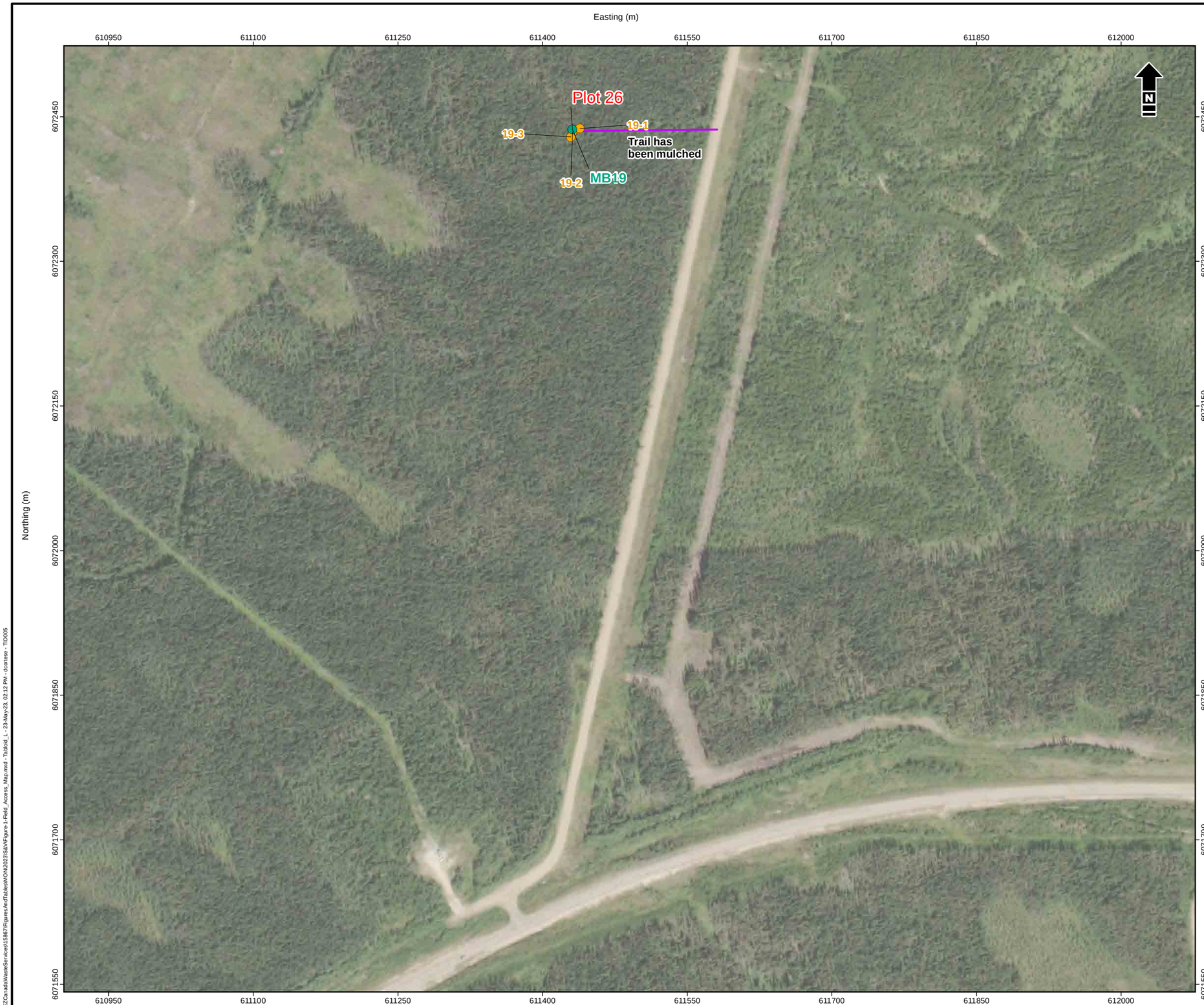
Figure 1l

I:\SUEZCanadaWasteServices\15867\Figures\AndTables\MON2023\S&V\Figure 1-Field_Access_Map.mxd - Talford_L - 23-May-23, 02:12 PM - dcortese - TID005



Trail

Expanded Program Monitoring Location

Vegetation Point

Lichen

Moss Bag

*Note: All trails are marked with a combination of white 3M Reflective Strips, pink tree paint and pink/ blue flagging. The entrance of some trails are marked either by white 3M Reflective Strips or a yield sign.

1:4,000 metres

40 0 40 80

NAD 1983 UTM Zone 11N

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Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

SUEZ Canada Waste Services Inc.
Swan Hills Treatment Centre - Soil and Vegetation Monitoring Program

Field Access Map
MB19, Plot 26

Date:	Project:	Submitter:	Reviewer:
May 2023	15867	L. Oiffer	K. Ostermann

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Figure 1m

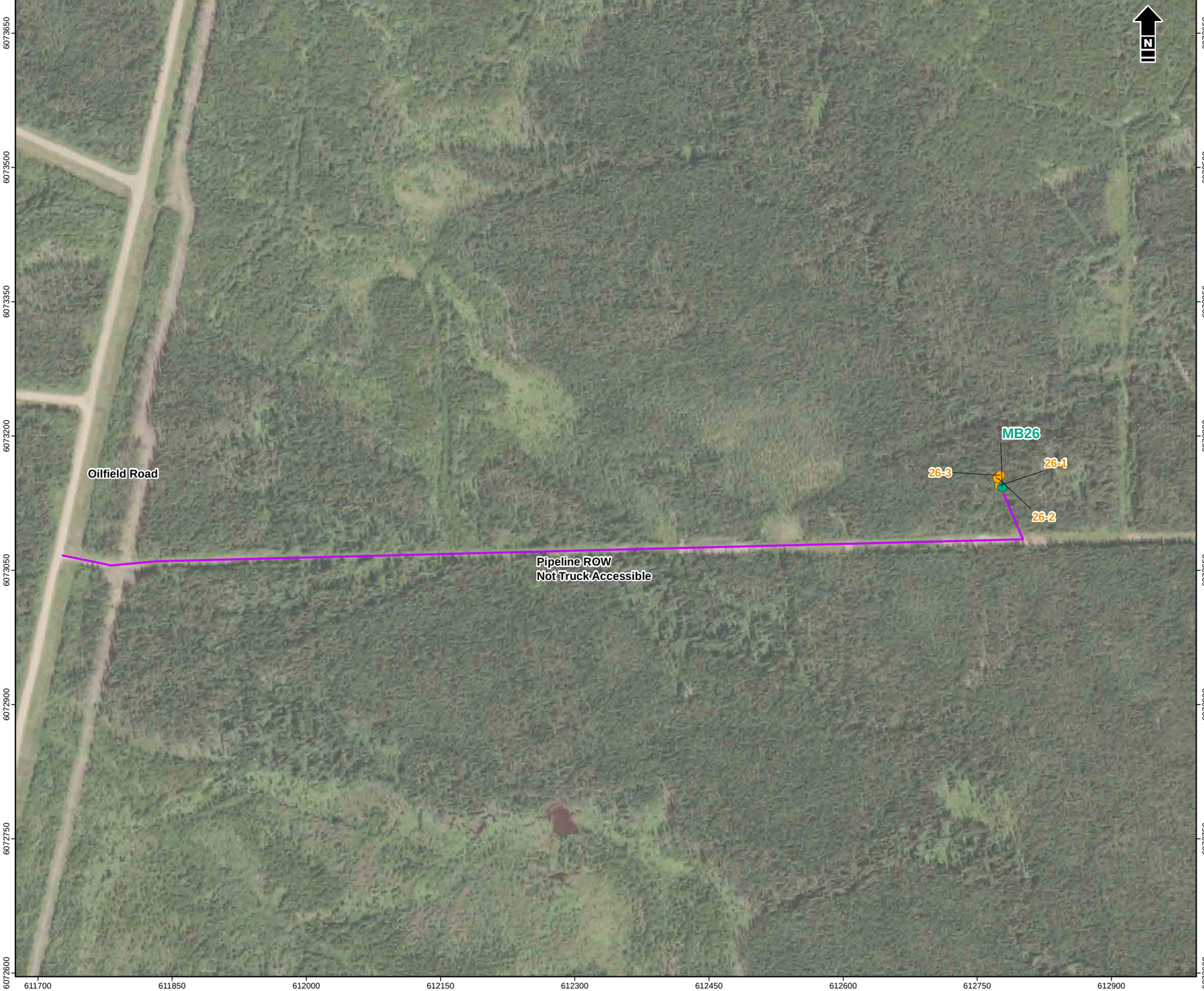
I:\SUEZCanadaWasteServices\15867\Figures-And-Tables\MON2023\SAV\Figure 1-Field_Access_Map.mxd - TaWood_L - 23-May-23, 02:12 PM - dcortese - TID005

Easting (m)

611700 611850 612000 612150 612300 612450 612600 612750 612900

Northing (m)

6073650 6073500 6073350 6073200 6073050 6072900 6072750 6072600



Trail

Vegetation Point

- Lichen
- Moss Bag

*Note: All trails are marked with a combination of white 3M Reflective Strips, pink tree paint and pink/ blue flagging. The entrance of some trails are marked either by white 3M Reflective Strips or a yield sign.

1:4,500 metres

40 0 40 80

NAD 1983 UTM Zone 11N

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Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

SUEZ Canada Waste Services Inc.
Swan Hills Treatment Centre - Soil and Vegetation Monitoring Program

Field Access Map
MB26

Date:	Project:	Submitter:	Reviewer:
May 2023	15867	L. Oiffer	K. Ostermann

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Figure 1n

I:\SUEZ Canada Waste Services\15867\Figures\ArcMaps\MXD\2023\S&V\Figure-1-Field_Access_Map.mxd - TabIod_L - 23-May-23, 02:12 PM - dcantese - TID005

Easting (m)

611250 611400 611550 611700 611850 612000

Northing (m)

6075300 6075150 6075000 6074850

MB50

50-1

50-3

50-2

Thick Brush

Plot 81

Pipeline ROW

N

Trail

Expanded Program Monitoring Location

Vegetation Point

Lichen

Moss Bag

*Note: All trails are marked with a combination of white 3M Reflective Strips, pink tree paint and pink/ blue flagging. The entrance of some trails are marked either by white 3M Reflective Strips or a yield sign.

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1:3,000 metres

30 0 30 60

NAD 1983 UTM Zone 11N

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

SUEZ Canada Waste Services Inc.
Swan Hills Treatment Centre - Soil and Vegetation Monitoring Program

Field Access Map
MB50, Plot 81

Date:	Project:	Submitter:	Reviewer:
May 2023	15867	L. Oiffer	K. Ostermann

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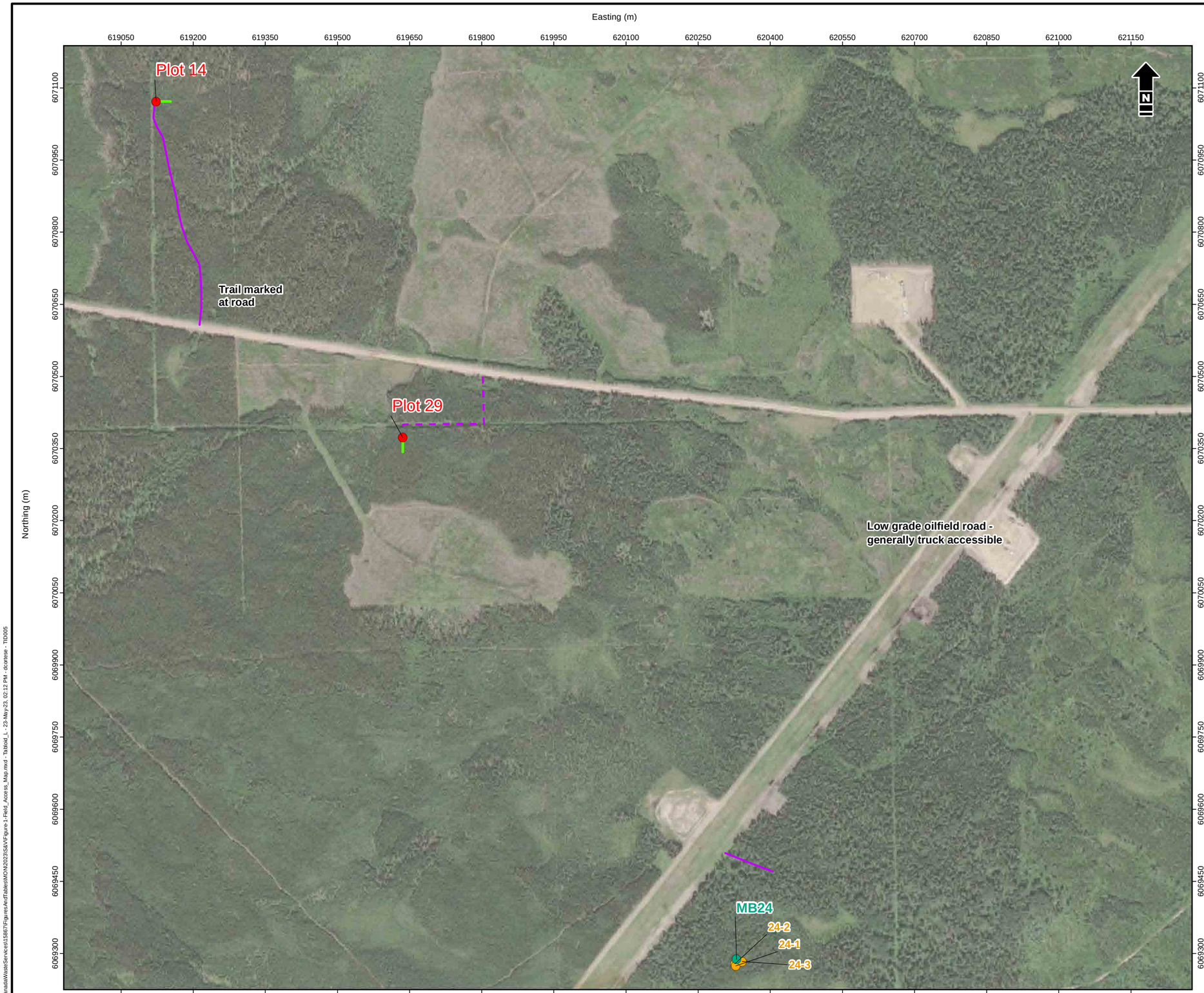
Figure 1o

I:\SUEZCanadaWasteServices\15867\Figures\ArcMaps\MXD\2023GIS\VF\Figure-1-Field_Access_Map.mxd - TaWood_L - 23-May-23, 02:12 PM - dcantese - TID005



Approximate Transect Orientation
Approximate Trail
Trail
Expanded Program Monitoring Location

Vegetation Point

Lichen
Moss Bag

*Note: All trails are marked with a combination of white 3M Reflective Strips, pink tree paint and pink/ blue flagging. The entrance of some trails are marked either by white 3M Reflective Strips or a yield sign. Trail markings on the road leading to Plot 14 degrade quickly. Plot MB24 shifted in 2018 due to forestry activity.

1:8,000 metres
80 0 80 160
NAD 1983 UTM Zone 11N

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Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

SUEZ Canada Waste Services Inc.
Swan Hills Treatment Centre - Soil and Vegetation Monitoring Program

Field Access Map
MB24, Plot 29, Plot 14

Date:	Project:	Submitter:	Reviewer:
May 2023	15867	L. Oiffer	K. Ostermann

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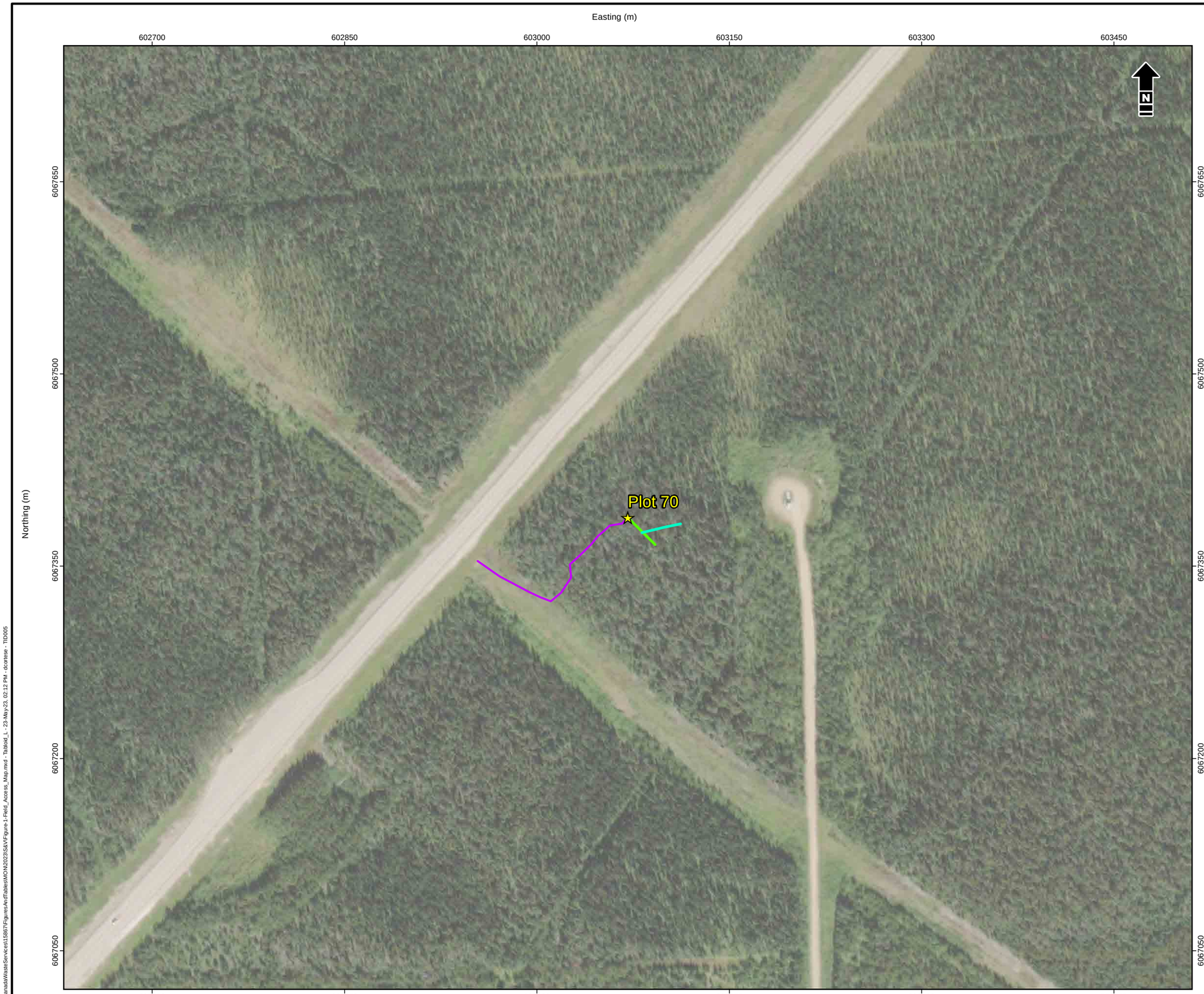
Figure 1p

I:\SU\EZCanadaWasteServices\15867\Figures-And-Tables\MON2023\SA\VF\gure-1-Field_Access_Map.mxd - TaMed_L - 23-May-23, 02:12 PM - dcortes - TID005



Approximate Transect Orientation
Trail
Approximate Transect Orientation (New)
Annual Monitoring Location

*Note: All trails are marked with a combination of white 3M Reflective Strips, pink tree paint and pink/ blue flagging. The entrance of some trails are marked either by white 3M Reflective Strips or a yield sign.

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1:3,000 metres
30 0 30 60
NAD 1983 UTM Zone 11N

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

SUEZ Canada Waste Services Inc.
Swan Hills Treatment Centre - Soil and Vegetation Monitoring Program

Field Access Map
Plot 70

Date:	Project:	Submitter:	Reviewer:
May 2023	15867	L. Oiffer	K. Ostermann

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Figure 1g

I:\SUEZCanadaWasteServices\15867\Figures\ArcMaps\MXD\2023\GIS\VEFigure-1-Field_Access_Map.mxd - TaWold_L - 23-May-23, 02:12 PM - dcontese - TID005

Easting (m)

610350 610500 610650 610800 610950

Northing (m)

6091050 6090900 6090750 6090600 6090450

MB71
71-1
71-2
71-3
Plot 71

N

Approximate Transect Orientation
Trail
Annual Monitoring Location

Vegetation Point

Lichen
Moss Bag

*Note: All trails are marked with a combination of white 3M Reflective Strips, pink tree paint and pink/ blue flagging. The entrance of some trails are marked either by white 3M Reflective Strips or a yield sign. Lichen site 71-1 has been knocked over.

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1:3,000 metres

30 0 30 60

NAD 1983 UTM Zone 11N

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

SUEZ Canada Waste Services Inc.
Swan Hills Treatment Centre - Soil and Vegetation Monitoring Program

Field Access Map
MB71, Plot 71

Date:	Project:	Submitter:	Reviewer:
May 2023	15867	L. Oiffer	K. Ostermann

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Figure 1r

I:\SUEZCanadaWasteServices\15867\Figures\ArcToolkits\MON2023GIS\VFigure-1-Field_Access_Map.mxd - TaWood_L - 23-May-23, 02:12 PM - dcortese - TID005

APPENDIX C
Laboratory Reports

Matrix Solutions Inc.
ATTN: Lindsay Oiffer
Suite 142 6325 Gateway Blvd
Edmonton AB T6H5H6

Date Received: 21-JUN-23
Report Date: 27-DEC-23 14:33 (MT)
Version: FINAL REV. 3

Client Phone: 780-989-8347

Certificate of Analysis

Lab Work Order #: L2751405

Project P.O. #:	NOT SUBMITTED
Job Reference:	15867-503
C of C Numbers:	120258,120256,120257
Legal Site Desc:	SHTL

Comments: ADDITIONAL 10-OCT-23 15:48

Kieran Tordoff
Account Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2751405-1 15867230619001							
Sampled By: LO/CM on 19-JUN-23							
Matrix: MOSS							
All PCB congeners by GC/HRMS							
PCB 1	0.35	J,R	0.23	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 2	<0.26	[U]	0.26	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 3	0.33	M,J,R	0.21	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 4	<0.65	[U]	0.65	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 10	<0.31	[U]	0.31	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 9	<0.30	[U]	0.30	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 7	<0.31	[U]	0.31	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 6	<0.32	[U]	0.32	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 5	<0.34	[U]	0.34	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 8	0.97	M,J,R	0.29	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 14	<0.92	[U]	0.92	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 11	9.72	[B]	0.89	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 13/12	<0.85	[U]	0.85	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 15	<0.82	[U]	0.82	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 19	<0.18	[U]	0.18	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 30/18	0.62	M,J,R	0.24	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 17	0.46	M,J,R	0.28	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 27	<0.22	[U]	0.22	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 24	<0.23	[U]	0.23	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 16	0.45	M,J	0.31	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 32	0.44	[J]	0.20	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 34	<3.2	[U]	3.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 23	<3.1	[U]	3.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 29/26	<2.9	[U]	2.9	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 25	<2.8	[U]	2.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 31	<2.9	[U]	2.9	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 28/20	3.5	M,J	3.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 21/33	<2.9	[U]	2.9	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 22	<3.2	M,U	3.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 36	<2.6	[U]	2.6	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 39	<3.1	[U]	3.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 38	<3.0	[U]	3.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 35	<3.2	[U]	3.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 37	<4.2	[U]	4.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 54	<1.2	[U]	1.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 50/53	<2.9	[U]	2.9	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 45/51	<3.0	[U]	3.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 46	<3.3	[U]	3.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 52	<3.0	[U]	3.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 73	<2.0	[U]	2.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 43	<3.6	[U]	3.6	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 69/49	<2.3	[U]	2.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 48	<2.8	[U]	2.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 44/47/65	<2.6	[U]	2.6	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 59/62/75	<2.1	[U]	2.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 42	<3.0	[U]	3.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 41/71/40	<2.8	[U]	2.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 64	<2.1	[U]	2.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 72	<2.7	[U]	2.7	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 68	<2.6	[U]	2.6	pg/g wwt	02-NOV-23	17-NOV-23	R5972336

* 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
L2751405-1 15867230619001							
Sampled By: LO/CM on 19-JUN-23							
Matrix: MOSS							
All PCB congeners by GC/HRMS							
PCB 57	<2.8	[U]	2.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 58	<2.8	[U]	2.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 67	<2.4	[U]	2.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 63	<2.7	[U]	2.7	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 61/70/74/76	5.7	M,J,R	2.7	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 66	<2.6	[U]	2.6	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 55	<2.8	[U]	2.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 56	<2.8	[U]	2.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 60	<2.8	[U]	2.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 80	<2.2	[U]	2.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 79	<2.4	[U]	2.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 78	<3.0	[U]	3.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 81	<3.2	[U]	3.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 77	<3.6	[U]	3.6	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 104	<0.92	[U]	0.92	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 96	<1.5	[U]	1.5	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 103	<2.1	[U]	2.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 94	<2.2	[U]	2.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 95	<2.3	[U]	2.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 100/93/102/98	<2.0	[U]	2.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 88/91	<2.2	[U]	2.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 84	<2.2	[U]	2.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 89	<2.6	[U]	2.6	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 121	<1.5	[U]	1.5	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 92	<2.4	[U]	2.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 113/90/101	3.0	M,J,R	1.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 83/99	<2.1	[U]	2.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 112	<1.5	[U]	1.5	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 109/119/86/97/125/87	<1.7	[U]	1.7	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 117/116/85/110/115	4.9	M,J,R	1.6	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 82	<2.4	[U]	2.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 111	<1.5	[U]	1.5	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 120	<1.4	[U]	1.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 108/124	<1.8	[U]	1.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 107	<1.5	[U]	1.5	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 123	<2.0	[U]	2.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 106	<1.9	[U]	1.9	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 118	3.9	M,J,R	1.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 122	<2.3	[U]	2.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 114	<2.0	[U]	2.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 105	<1.9	[U]	1.9	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 127	<1.7	[U]	1.7	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 126	<2.2	[U]	2.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 155	<0.47	[U]	0.47	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 152	<0.70	[U]	0.70	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 150	<0.60	[U]	0.60	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 136	<0.66	[U]	0.66	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 145	<0.64	[U]	0.64	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 148	<0.87	[U]	0.87	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 151/135	2.40	M,J,R	0.89	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 154	<0.66	[U]	0.66	pg/g wwt	02-NOV-23	17-NOV-23	R5972336

* 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
L2751405-1 15867230619001							
Sampled By: LO/CM on 19-JUN-23							
Matrix: MOSS							
All PCB congeners by GC/HRMS							
PCB 144	<0.87	[U]	0.87	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 147/149	3.9	[J]	1.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 134/143	<1.5	[U]	1.5	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 139/140	<1.2	[U]	1.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 131	<1.5	[U]	1.5	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 142	<1.6	[U]	1.6	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 132	1.9	M,J,R	1.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 133	<1.4	[U]	1.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 165	<1.1	[U]	1.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 146	<1.1	[U]	1.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 161	<1.0	[U]	1.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 168/153	4.4	J,R	1.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 141	<1.3	[U]	1.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 130	<1.5	[U]	1.5	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 137/164	<1.1	[U]	1.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 138/163/129	5.6	J,R	1.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 160	<0.93	[U]	0.93	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 158	<0.85	[U]	0.85	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 128/166	<1.1	[U]	1.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 159	<0.91	[U]	0.91	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 162	<0.97	[U]	0.97	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 167	<1.1	[U]	1.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 156/157	<1.4	[U]	1.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 169	<1.1	[U]	1.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 188	<0.74	[U]	0.74	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 179	<0.73	[U]	0.73	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 184	<0.70	[U]	0.70	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 176	<0.73	[U]	0.73	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 186	<0.76	[U]	0.76	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 178	<1.0	[U]	1.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 175	<0.97	[U]	0.97	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 187	3.12	[J]	0.91	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 182	<0.92	[U]	0.92	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 183	1.50	M,J,R	0.89	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 185	<1.0	[U]	1.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 174	1.90	M,J	0.97	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 177	<0.99	[U]	0.99	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 181	<1.0	[U]	1.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 171/173	<1.0	[U]	1.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 172	<0.96	[U]	0.96	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 192	<0.82	[U]	0.82	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 180/193	3.60	M,J,R	0.80	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 191	<0.73	[U]	0.73	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 170	1.76	[J]	0.99	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 190	<0.64	[U]	0.64	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 189	<1.1	[U]	1.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 202	<0.57	[U]	0.57	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 201	<0.57	[U]	0.57	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 204	<0.59	[U]	0.59	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 197	<0.60	[U]	0.60	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 200	<0.62	[U]	0.62	pg/g wwt	02-NOV-23	17-NOV-23	R5972336

* 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
L2751405-1 15867230619001							
Sampled By: LO/CM on 19-JUN-23							
Matrix: MOSS							
All PCB congeners by GC/HRMS							
PCB 198/199	<0.80	[U]	0.80	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 196	<0.78	[U]	0.78	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 203	<0.77	[U]	0.77	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 195	<0.92	[U]	0.92	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 194	0.92	M,J,R	0.90	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 205	<0.82	[U]	0.82	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 208	<3.1	[U]	3.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 207	<3.1	[U]	3.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 206	<5.3	[U]	5.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 209	<0.91	[U]	0.91	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 1	29.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 3	33.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 4	30.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 15	36.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 19	37.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 37	23.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 54	28.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 81	32.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 77	32.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 104	36.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 123	37.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 118	38.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 114	35.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 105	36.0	M	10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 126	38.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 155	38.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 167	46.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 156/157	49.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 169	52.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 188	40.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 189	48.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 202	46.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 205	49.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 208	42.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 206	47.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 209	40.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 28	35.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 111	46.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 178	46.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Total MonoCB	0.68	[J]	0.21	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Total DiCB	10.7	[J]	0.29	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Total TriCB	5.45	[J]	0.18	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Total TetraCB	5.7	[J]	1.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Total PentaCB	11.8	[J]	0.92	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Total HexaCB	18.2	[J]	0.47	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Total HeptaCB	11.9	[J]	0.64	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Total OctaCB	0.92	[J]	0.57	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Total NonaCB	<3.1	[U]	3.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
DecaCB	<0.91	[U]	0.91	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Total PCB	65.3	[J]	1.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Lower Bound PCB TEQ (WHO 2005)	0.00			pg/g wwt	02-NOV-23	17-NOV-23	R5972336

* 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
L2751405-1 15867230619001							
Sampled By: LO/CM on 19-JUN-23							
Matrix: MOSS							
All PCB congeners by GC/HRMS							
Mid Point PCB TEQ (WHO 2005)	0.127			pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Upper Bound PCB TEQ (WHO 2005)	0.255			pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Dioxins and Furans HR 1613B							
2,3,7,8-TCDD	<0.059	[U]	0.059	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,7,8-PeCDD	<0.053	[U]	0.053	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,4,7,8-HxCDD	0.051	J,R	0.034	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,6,7,8-HxCDD	0.083	[J]	0.034	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,7,8,9-HxCDD	0.046	J,R	0.033	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,4,6,7,8-HpCDD	0.77	J,R	0.18	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
OCDD	4.80	J,R	0.078	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
2,3,7,8-TCDF	0.093	M,J,R	0.049	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,7,8-PeCDF	<0.064	[U]	0.064	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
2,3,4,7,8-PeCDF	<0.065	[U]	0.065	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,4,7,8-HxCDF	0.046	[J]	0.036	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,6,7,8-HxCDF	<0.040	[U]	0.040	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
2,3,4,6,7,8-HxCDF	<0.041	[U]	0.041	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,7,8,9-HxCDF	<0.058	[U]	0.058	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,4,6,7,8-HpCDF	0.140	M,J,R	0.030	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,4,7,8,9-HpCDF	0.059	M,J,R	0.049	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
OCDF	0.540	M,J,R	0.062	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total-TCDD	<0.059	[U]	0.059	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total TCDD # Homologues	0				02-NOV-23	12-NOV-23	R5972336
Total-PeCDD	<0.053	[U]	0.053	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total PeCDD # Homologues	0				02-NOV-23	12-NOV-23	R5972336
Total-HxCDD	0.385		0.034	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total HxCDD # Homologues	2				02-NOV-23	12-NOV-23	R5972336
Total-HpCDD	<0.18	[U]	0.18	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total HpCDD # Homologues	0				02-NOV-23	12-NOV-23	R5972336
Total-TCDF	<0.049	[U]	0.049	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total TCDF # Homologues	0				02-NOV-23	12-NOV-23	R5972336
Total-PeCDF	<0.065	[U]	0.065	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total PeCDF # Homologues	0				02-NOV-23	12-NOV-23	R5972336
Total-HxCDF	0.219		0.058	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total HxCDF # Homologues	2				02-NOV-23	12-NOV-23	R5972336
Total-HpCDF	0.145		0.049	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total HpCDF # Homologues	1				02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-2,3,7,8-TCDD	79.0		25-164	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,7,8-PeCDD	85.0		25-181	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,4,7,8-HxCDD	111.0		32-141	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,6,7,8-HxCDD	104.0		28-130	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,4,6,7,8-HpCDD	93.0		23-140	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-OCDD	64.0		17-157	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-2,3,7,8-TCDF	78.0		24-169	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,7,8-PeCDF	94.0		21-192	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-2,3,4,7,8-PeCDF	84.0		21-178	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,4,7,8-HxCDF	117.0		26-152	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,6,7,8-HxCDF	111.0		26-123	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-2,3,4,6,7,8-HxCDF	110.0		29-147	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,7,8,9-HxCDF	102.0		28-136	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,4,6,7,8-HpCDF	98.0		28-143	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,4,7,8,9-HpCDF	85.0		26-138	%	02-NOV-23	12-NOV-23	R5972336

* 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
L2751405-1 15867230619001							
Sampled By: LO/CM on 19-JUN-23							
Matrix: MOSS							
Dioxins and Furans HR 1613B							
Surrogate: 37Cl4-2,3,7,8-TCDD (Cleanup)	80.0		31-197	%	02-NOV-23	12-NOV-23	R5972336
Lower Bound PCDD/F TEQ (WHO 2005)	0.0128		0	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Mid Point PCDD/F TEQ (WHO 2005)	0.117		0	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Upper Bound PCDD/F TEQ (WHO 2005)	0.190		0	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
L2751405-2 15867230619101							
Sampled By: LO/CM on 19-JUN-23							
Matrix: LAB TEA							
Miscellaneous Parameters							
% Moisture	80.0		0.10	%	02-AUG-23	03-AUG-23	R5965039
% Moisture	83.0		0.50	%		12-JUL-23	R5963338
Mercury (Hg)-Total	0.0157		0.0050	mg/kg	18-JUL-23	25-JUL-23	R5964336
Silver (Ag)-Total	<0.0050		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Sulfur (S)-Total	1150		100	mg/kg	18-JUL-23	19-JUL-23	R5964066
Titanium (Ti)-Total	1.04		0.25	mg/kg	18-JUL-23	19-JUL-23	R5964066
Total Nitrogen by Leco	1.48		0.050	%	21-JUL-23	21-JUL-23	R5964216
Metals in Tissue by CRC ICPMS (DRY)							
Aluminum (Al)-Total	89.5		2.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Antimony (Sb)-Total	0.012		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Arsenic (As)-Total	0.022		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Barium (Ba)-Total	97.7		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Beryllium (Be)-Total	<0.010		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Bismuth (Bi)-Total	<0.010		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Boron (B)-Total	18.9		1.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cadmium (Cd)-Total	0.0083		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Calcium (Ca)-Total	6430		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cesium (Cs)-Total	0.0515		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Chromium (Cr)-Total	0.107		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cobalt (Co)-Total	0.033		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Copper (Cu)-Total	3.21		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Iron (Fe)-Total	76.6		3.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Lead (Pb)-Total	0.062		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Lithium (Li)-Total	<0.50		0.50	mg/kg	18-JUL-23	19-JUL-23	R5964066
Magnesium (Mg)-Total	1400		2.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Manganese (Mn)-Total	1320		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Molybdenum (Mo)-Total	<0.020		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Nickel (Ni)-Total	0.40		0.20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Phosphorus (P)-Total	1210		10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Potassium (K)-Total	3640		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Rubidium (Rb)-Total	11.4		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Selenium (Se)-Total	<0.050		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Sodium (Na)-Total	33		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Strontium (Sr)-Total	4.05		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Tellurium (Te)-Total	<0.020		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Thallium (Tl)-Total	0.0162		0.0020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Tin (Sn)-Total	<0.10		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Uranium (U)-Total	0.0024		0.0020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Vanadium (V)-Total	<0.10		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Zinc (Zn)-Total	30.3		0.50	mg/kg	18-JUL-23	19-JUL-23	R5964066
Zirconium (Zr)-Total	<0.20		0.20	mg/kg	18-JUL-23	19-JUL-23	R5964066
All PCB congeners by GC/HRMS							

* 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
L2751405-2 15867230619101							
Sampled By: LO/CM on 19-JUN-23							
Matrix: LAB TEA							
All PCB congeners by GC/HRMS							
PCB 1	14.0	[J],R	3.9	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 2	8.1	M,[J],R	3.8	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 3	18.0	M,[J],R	3.3	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 4	<26	[U]	26	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 10	<10	[U]	10	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 9	<11	[U]	11	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 7	<10	[U]	10	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 6	24	M,[J],R	11	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 5	<11	[U]	11	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 8	60	[J],R	10	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 14	<23	[U]	23	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 11	258	[B]	23	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 13/12	<20	[U]	20	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 15	39	M,[J]	15	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 19	<20	[U]	20	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 30/18	37	[J],R	16	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 17	<18	M,[U]	18	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 27	<13	[U]	13	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 24	<14	[U]	14	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 16	<22	[U]	22	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 32	14	M,[J],[B]	13	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 34	<20	[U]	20	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 23	<20	[U]	20	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 29/26	<18	M,[U]	18	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 25	<17	M,[U]	17	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 31	74	[J],[B]	18	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 28/20	92	[J]	18	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 21/33	47	M,[J]	18	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 22	34	M,[J],[B]	20	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 36	<17	[U]	17	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 39	<19	[U]	19	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 38	25	[J],R	19	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 35	<20	[U]	20	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 37	36	M,[J]	15	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 54	<6.0	[U]	6.0	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 50/53	<9.2	[U]	9.2	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 45/51	<9.4	[U]	9.4	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 46	<10	[U]	10	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 52	64.8	M,[J],[B]	9.6	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 73	<6.3	[U]	6.3	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 43	<11	M,[U]	11	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 69/49	29.8	M,[J],[B]	7.5	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 48	<9.0	M,[U]	9.0	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 44/47/65	78.0	[J]	8.0	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 59/62/75	<6.7	[U]	6.7	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 42	12.0	M,[J],R	9.7	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 41/71/40	46.0	[J],R	9.1	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 64	25.6	[J]	6.5	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 72	<8.1	[U]	8.1	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 68	<8.3	[U]	8.3	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 57	<9.0	[U]	9.0	pg/g wwt	25-AUG-23	01-SEP-23	R5967736

* 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
L2751405-2 15867230619101							
Sampled By: LO/CM on 19-JUN-23							
Matrix: LAB TEA							
All PCB congeners by GC/HRMS							
PCB 58	<8.6	[U]	8.6	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 67	<7.5	[U]	7.5	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 63	<8.8	[U]	8.8	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 61/70/74/76	62.0	M,[J],R	8.5	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 66	42.3	[J]	8.7	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 55	<9.0	[U]	9.0	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 56	25.7	[J]	8.6	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 60	13.0	M,[J],R	9.0	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 80	<7.2	[U]	7.2	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 79	<7.7	[U]	7.7	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 78	<9.8	[U]	9.8	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 81	<8.2	[U]	8.2	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 77	<8.0	[U]	8.0	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 104	<4.7	[U]	4.7	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 96	<5.6	[U]	5.6	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 103	<11	[U]	11	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 94	<11	[U]	11	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 95	49	M,[J],[B]	12	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 100/93/102/98	<10	[U]	10	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 88/91	<11	[U]	11	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 84	<12	[U]	12	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 89	<14	[U]	14	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 121	<7.7	[U]	7.7	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 92	<13	[U]	13	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 113/90/101	36.0	M,[J],R	9.1	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 83/99	25	M,[J],R	12	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 112	<7.2	[U]	7.2	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 109/119/86/97/125/87	27.0	M,[J],R	7.5	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 117/116/85/110/115	84	M,[J]	10	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 82	<14	[U]	14	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 111	<7.7	[U]	7.7	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 120	<8.1	[U]	8.1	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 108/124	<6.2	[U]	6.2	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 107	<5.0	[U]	5.0	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 123	<6.1	[U]	6.1	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 106	<7.1	[U]	7.1	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 118	33.0	[J],R	5.7	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 122	<8.4	[U]	8.4	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 114	<6.7	[U]	6.7	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 105	14.1	[J]	5.9	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 127	<6.2	[U]	6.2	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 126	<6.3	[U]	6.3	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 155	<3.5	[U]	3.5	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 152	<4.5	[U]	4.5	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 150	<4.3	[U]	4.3	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 136	<5.1	[U]	5.1	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 145	<4.7	[U]	4.7	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 148	<6.8	[U]	6.8	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 151/135	12.3	M,[J]	6.5	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 154	<5.0	[U]	5.0	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 144	<6.7	[U]	6.7	pg/g wwt	25-AUG-23	01-SEP-23	R5967736

* 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
L2751405-2 15867230619101							
Sampled By: LO/CM on 19-JUN-23							
Matrix: LAB TEA							
All PCB congeners by GC/HRMS							
PCB 147/149	34.2	M,[J]	7.6	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 134/143	<9.8	[U]	9.8	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 139/140	<7.9	[U]	7.9	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 131	<9.8	[U]	9.8	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 142	<11	[U]	11	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 132	<9.4	[U]	9.4	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 133	<9.8	[U]	9.8	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 165	<6.9	[U]	6.9	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 146	<7.5	[U]	7.5	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 161	<6.8	[U]	6.8	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 168/153	28.8	[J]	6.8	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 141	<8.3	[U]	8.3	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 130	<10	[U]	10	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 137/164	<7.3	[U]	7.3	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 138/163/129	34.5	[J],[B]	8.2	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 160	<6.9	[U]	6.9	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 158	<5.7	M,[U]	5.7	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 128/166	<7.7	[U]	7.7	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 159	<6.1	[U]	6.1	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 162	<6.3	[U]	6.3	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 167	<6.0	[U]	6.0	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 156/157	<8.4	[U]	8.4	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 169	<6.7	[U]	6.7	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 188	<4.7	[U]	4.7	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 179	<5.5	[U]	5.5	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 184	<5.1	[U]	5.1	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 176	<5.6	[U]	5.6	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 186	<5.6	[U]	5.6	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 178	<8.0	[U]	8.0	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 175	<7.5	[U]	7.5	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 187	<6.8	[U]	6.8	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 182	<7.0	[U]	7.0	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 183	8.9	[J]	6.9	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 185	<7.3	[U]	7.3	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 174	<7.0	[U]	7.0	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 177	<7.7	[U]	7.7	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 181	<7.3	[U]	7.3	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 171/173	<7.7	[U]	7.7	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 172	<7.6	[U]	7.6	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 192	<6.3	[U]	6.3	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 180/193	15.0	M,[J],R	6.2	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 191	<5.8	[U]	5.8	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 170	<8.1	[U]	8.1	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 190	<5.3	[U]	5.3	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 189	<5.1	[U]	5.1	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 202	<3.6	[U]	3.6	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 201	<3.7	[U]	3.7	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 204	<3.9	[U]	3.9	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 197	<3.8	[U]	3.8	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 200	<4.3	[U]	4.3	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 198/199	<5.8	[U]	5.8	pg/g wwt	25-AUG-23	01-SEP-23	R5967736

* 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
L2751405-2 15867230619101							
Sampled By: LO/CM on 19-JUN-23							
Matrix: LAB TEA							
All PCB congeners by GC/HRMS							
PCB 196	<5.6	[U]	5.6	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 203	<5.4	[U]	5.4	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 195	<5.8	[U]	5.8	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 194	7.2	[J],R	5.6	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 205	<4.9	[U]	4.9	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 208	<14	[U]	14	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 207	<15	[U]	15	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 206	<25	[U]	25	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 209	<54	[U]	54	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 1	37.0		5-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 3	49.0		5-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 4	37.0		5-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 15	46.0		5-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 19	34.0		5-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 37	52.0		5-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 54	33.0		5-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 81	52.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 77	54.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 104	40.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 123	53.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 118	52.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 114	49.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 105	54.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 126	53.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 155	44.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 167	52.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 156/157	49.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 169	49.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 188	48.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 189	39.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 202	45.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 205	49.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 208	52.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 206	48.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 209	46.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 28	69.0		5-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 111	73.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 178	73.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Total MonoCB	40.1	[J]	3.3	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
Total DiCB	381	[J]	10	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
Total TriCB	358	[J]	13	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
Total TetraCB	399	[J]	6.0	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
Total PentaCB	267	[J]	4.7	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
Total HexaCB	110	[J]	3.5	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
Total HeptaCB	23.9	[J]	4.7	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
Total OctaCB	7.2	[J]	3.6	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
Total NonaCB	<14	[U]	14	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
DecaCB	<54	[U]	54	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
Total PCB	1590	[J]	1.0	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
Lower Bound PCB TEQ (WHO 2005)	0.000423			pg/g wwt	25-AUG-23	01-SEP-23	R5967736
Mid Point PCB TEQ (WHO 2005)	0.419			pg/g wwt	25-AUG-23	01-SEP-23	R5967736

* 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
L2751405-2 15867230619101							
Sampled By: LO/CM on 19-JUN-23							
Matrix: LAB TEA							
All PCB congeners by GC/HRMS							
Upper Bound PCB TEQ (WHO 2005)	0.837			pg/g wwt	25-AUG-23	01-SEP-23	R5967736
Dioxins and Furans HR 1613B							
2,3,7,8-TCDD	<4.1	[U]	4.1	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
1,2,3,7,8-PeCDD	<4.8	[U]	4.8	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
1,2,3,4,7,8-HxCDD	<4.1	[U]	4.1	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
1,2,3,6,7,8-HxCDD	<3.9	[U]	3.9	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
1,2,3,7,8,9-HxCDD	<3.9	[U]	3.9	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
1,2,3,4,6,7,8-HpCDD	<5.3	[U]	5.3	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
OCDD	16.0	M,J,R	7.5	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
2,3,7,8-TCDF	<3.9	M,U	3.9	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
1,2,3,7,8-PeCDF	<2.5	[U]	2.5	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
2,3,4,7,8-PeCDF	<2.5	[U]	2.5	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
1,2,3,4,7,8-HxCDF	<2.4	[U]	2.4	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
1,2,3,6,7,8-HxCDF	<2.6	[U]	2.6	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
2,3,4,6,7,8-HxCDF	<2.5	[U]	2.5	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
1,2,3,7,8,9-HxCDF	<3.2	[U]	3.2	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
1,2,3,4,6,7,8-HpCDF	<3.8	[U]	3.8	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
1,2,3,4,7,8,9-HpCDF	<4.6	[U]	4.6	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
OCDF	<6.4	[U]	6.4	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
Total-TCDD	<4.1	[U]	4.1	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
Total TCDD # Homologues	0				02-AUG-23	19-AUG-23	R5967776
Total-PeCDD	<4.8	[U]	4.8	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
Total PeCDD # Homologues	0				02-AUG-23	19-AUG-23	R5967776
Total-HxCDD	<4.1	[U]	4.1	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
Total HxCDD # Homologues	0				02-AUG-23	19-AUG-23	R5967776
Total-HpCDD	<5.3	[U]	5.3	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
Total HpCDD # Homologues	0				02-AUG-23	19-AUG-23	R5967776
Total-TCDF	<3.9	[U]	3.9	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
Total TCDF # Homologues	0				02-AUG-23	19-AUG-23	R5967776
Total-PeCDF	<2.5	[U]	2.5	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
Total PeCDF # Homologues	0				02-AUG-23	19-AUG-23	R5967776
Total-HxCDF	<3.2	[U]	3.2	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
Total HxCDF # Homologues	0				02-AUG-23	19-AUG-23	R5967776
Total-HpCDF	<4.6	[U]	4.6	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
Total HpCDF # Homologues	0				02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-2,3,7,8-TCDD	54.0		25-164	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-1,2,3,7,8-PeCDD	56.0		25-181	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-1,2,3,4,7,8-HxCDD	60.0		32-141	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-1,2,3,6,7,8-HxCDD	56.0		28-130	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-1,2,3,4,6,7,8-HpCDD	71.0		23-140	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-OCDD	69.0		17-157	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-2,3,7,8-TCDF	53.0		24-169	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-1,2,3,7,8-PeCDF	62.0		21-192	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-2,3,4,7,8-PeCDF	58.0		21-178	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-1,2,3,4,7,8-HxCDF	66.0		26-152	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-1,2,3,6,7,8-HxCDF	65.0		26-123	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-2,3,4,6,7,8-HxCDF	67.0		29-147	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-1,2,3,7,8,9-HxCDF	64.0		28-136	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-1,2,3,4,6,7,8-HpCDF	69.0		28-143	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-1,2,3,4,7,8,9-HpCDF	73.0		26-138	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 37Cl4-2,3,7,8-TCDD (Cleanup)	77.0		31-197	%	02-AUG-23	19-AUG-23	R5967776

* 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
L2751405-2 15867230619101							
Sampled By: LO/CM on 19-JUN-23							
Matrix: LAB TEA							
Dioxins and Furans HR 1613B							
Lower Bound PCDD/F TEQ (WHO 2005)	0.00		0	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
Mid Point PCDD/F TEQ (WHO 2005)	6.26		0	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
Upper Bound PCDD/F TEQ (WHO 2005)	12.5		0	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
L2751405-3 15867230619002							
Sampled By: LO/CM on 19-JUN-23							
Matrix: MOSS							
All PCB congeners by GC/HRMS							
PCB 1	0.82	[J]	0.26	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 2	0.53	J,R	0.29	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 3	0.44	J,R	0.24	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 4	1.20	M,J,R	0.82	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 10	<0.39	[U]	0.39	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 9	<0.39	M,U	0.39	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 7	<0.38	[U]	0.38	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 6	0.55	J,R	0.39	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 5	<0.43	[U]	0.43	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 8	2.40	J,R	0.36	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 14	<1.2	[U]	1.2	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 11	16.5	[B]	1.2	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 13/12	<1.2	[U]	1.2	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 15	<1.1	[U]	1.1	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 19	0.30	M,J,R	0.20	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 30/18	2.21	M,J	0.26	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 17	1.10	M,J	0.30	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 27	<0.23	[U]	0.23	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 24	<0.25	[U]	0.25	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 16	0.93	J,R	0.33	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 32	1.00	M,J	0.21	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 34	<0.37	[U]	0.37	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 23	<0.36	[U]	0.36	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 29/26	0.82	[J]	0.34	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 25	0.55	M,J	0.32	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 31	7.48		0.33	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 28/20	8.63		0.34	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 21/33	1.54	[J]	0.33	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 22	2.00	J,R	0.37	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 36	<0.31	[U]	0.31	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 39	<0.36	[U]	0.36	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 38	1.06	M,J	0.35	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 35	0.80	M,J,R	0.38	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 37	4.52	[J]	0.39	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 54	<0.12	[U]	0.12	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 50/53	0.53	J,R	0.49	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 45/51	0.86	[J]	0.50	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 46	<0.55	[U]	0.55	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 52	14.7		0.48	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 73	<0.36	[U]	0.36	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 43	<0.57	[U]	0.57	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 69/49	6.60		0.40	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 48	0.50	J,R	0.47	pg/g wwt	02-NOV-23	16-NOV-23	R5972336

* 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
L2751405-3 15867230619002							
Sampled By: LO/CM on 19-JUN-23							
Matrix: MOSS							
All PCB congeners by GC/HRMS							
PCB 44/47/65	9.55		0.43	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 59/62/75	0.63	[J]	0.36	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 42	1.50	J,R	0.52	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 41/71/40	2.43	M,J	0.47	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 64	6.11		0.35	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 72	<0.31	[U]	0.31	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 68	<0.30	M,U	0.30	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 57	<0.32	[U]	0.32	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 58	<0.31	[U]	0.31	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 67	<0.27	[U]	0.27	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 63	0.63	J,R	0.30	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 61/70/74/76	47.6		0.31	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 66	17.5		0.30	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 55	<0.32	M,U	0.32	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 56	4.70	J,R	0.32	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 60	3.90	J,R	0.32	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 80	<0.26	[U]	0.26	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 79	0.95	[J]	0.27	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 78	<0.34	[U]	0.34	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 81	<0.30	[U]	0.30	pg/g wwt	02-NOV-23	09-DEC-23	R5972336
PCB 77	9.53	M	0.28	pg/g wwt	02-NOV-23	09-DEC-23	R5972336
PCB 104	<0.12	[U]	0.12	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 96	0.19	M,J,R	0.16	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 103	<0.29	M,U	0.29	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 94	<0.29	[U]	0.29	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 95	32.9	M	0.32	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 100/93/102/98	1.03	M,J	0.27	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 88/91	5.95		0.29	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 84	7.65		0.30	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 89	<0.34	[U]	0.34	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 121	<0.20	[U]	0.20	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 92	11.0		0.32	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 113/90/101	71.0		0.24	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 83/99	42.7		0.29	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 112	<0.19	[U]	0.19	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 109/119/86/97/125/87	38.7	M	0.23	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 117/116/85/110/115	92.4	M	0.22	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 82	6.22		0.33	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 111	<0.20	[U]	0.20	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 120	0.51	[J]	0.19	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 108/124	3.34	[J]	0.28	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 107	5.48	M	0.23	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 123	<0.31	[U]	0.31	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 106	<0.32	[U]	0.32	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 118	84.6		0.29	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 122	1.55	[J]	0.37	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 114	2.75	[J]	0.32	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 105	44.5	M	0.31	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 127	<0.28	M,U	0.28	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 126	2.10	J,R	0.23	pg/g wwt	02-NOV-23	09-DEC-23	R5972336
PCB 155	<0.051	[U]	0.051	pg/g wwt	02-NOV-23	16-NOV-23	R5972336

* 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
L2751405-3 15867230619002							
Sampled By: LO/CM on 19-JUN-23							
Matrix: MOSS							
All PCB congeners by GC/HRMS							
PCB 152	<0.074	[U]	0.074	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 150	0.100	J,R	0.069	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 136	9.55		0.074	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 145	<0.071	[U]	0.071	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 148	0.120	J,R	0.097	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 151/135	30.7	M	0.097	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 154	0.827	M,J	0.076	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 144	4.86	[J]	0.096	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 147/149	<0.25	M,U	0.25	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 134/143	3.70	J,R	0.32	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 139/140	1.77	[J]	0.25	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 131	0.96	J,R	0.31	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 142	<0.31	[U]	0.31	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 132	29.0		0.29	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 133	1.57	[J]	0.29	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 165	<0.21	M,U	0.21	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 146	13.9		0.22	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 161	<0.21	[U]	0.21	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 168/153	103		0.21	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 141	21.2		0.25	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 130	6.64	M	0.30	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 137/164	11.8	M	0.22	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 138/163/129	136		0.26	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 160	<0.20	[U]	0.20	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 158	11.8		0.18	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 128/166	17.7		0.23	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 159	1.23	M,J	0.18	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 162	0.50	J,R	0.19	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 167	6.12		0.21	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 156/157	14.9		0.28	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 169	0.21	M,J,R	0.13	pg/g wwt	02-NOV-23	09-DEC-23	R5972336
PCB 188	<3.6	[U]	3.6	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 179	10.0	M,J,R	3.4	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 184	<3.5	[U]	3.5	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 176	<3.5	[U]	3.5	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 186	<3.8	[U]	3.8	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 178	<4.9	[U]	4.9	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 175	<4.6	[U]	4.6	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 187	48.0	R	4.5	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 182	<4.5	[U]	4.5	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 183	25.0	M,J,R	4.0	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 185	<5.4	[U]	5.4	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 174	36.0	M,R	4.9	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 177	20.0	M,J,R	4.9	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 181	<5.3	[U]	5.3	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 171/173	11.0	J,R	5.1	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 172	8.8	[J]	5.0	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 192	<4.6	[U]	4.6	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 180/193	94.7		4.1	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 191	<3.8	[U]	3.8	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 170	41.0	M	5.1	pg/g wwt	02-NOV-23	29-NOV-23	R5972336

* 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
L2751405-3 15867230619002							
Sampled By: LO/CM on 19-JUN-23							
Matrix: MOSS							
All PCB congeners by GC/HRMS							
PCB 190	4.7	M,J,R	3.5	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 189	<2.4	[U]	2.4	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 202	1.99	[J]	0.057	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 201	1.50	J,R	0.057	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 204	<0.059	[U]	0.059	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 197	0.560	J,R	0.062	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 200	1.61	[J]	0.061	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 198/199	15.6		0.083	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 196	8.11		0.081	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 203	9.57		0.081	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 195	4.44	[J]	0.14	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 194	17.7		0.14	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 205	0.97	[J]	0.12	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 208	0.67	J,R	0.33	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 207	0.50	J,R	0.35	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 206	3.49	M,J	0.61	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
PCB 209	0.64	M,J,R	0.14	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
Surrogate: 13C12 PCB 1	24.0		5-145	%	02-NOV-23	16-NOV-23	R5972336
Surrogate: 13C12 PCB 3	28.0		5-145	%	02-NOV-23	16-NOV-23	R5972336
Surrogate: 13C12 PCB 4	25.0		5-145	%	02-NOV-23	16-NOV-23	R5972336
Surrogate: 13C12 PCB 15	33.0		5-145	%	02-NOV-23	16-NOV-23	R5972336
Surrogate: 13C12 PCB 19	35.0		5-145	%	02-NOV-23	16-NOV-23	R5972336
Surrogate: 13C12 PCB 37	29.0		5-145	%	02-NOV-23	16-NOV-23	R5972336
Surrogate: 13C12 PCB 54	27.0		5-145	%	02-NOV-23	16-NOV-23	R5972336
Surrogate: 13C12 PCB 81	36.0		10-145	%	02-NOV-23	16-NOV-23	R5972336
Surrogate: 13C12 PCB 77	34.0		10-145	%	02-NOV-23	16-NOV-23	R5972336
Surrogate: 13C12 PCB 104	35.0		10-145	%	02-NOV-23	16-NOV-23	R5972336
Surrogate: 13C12 PCB 123	39.0		10-145	%	02-NOV-23	16-NOV-23	R5972336
Surrogate: 13C12 PCB 118	38.0		10-145	%	02-NOV-23	16-NOV-23	R5972336
Surrogate: 13C12 PCB 114	37.0		10-145	%	02-NOV-23	16-NOV-23	R5972336
Surrogate: 13C12 PCB 105	37.0		10-145	%	02-NOV-23	16-NOV-23	R5972336
Surrogate: 13C12 PCB 126	37.0		10-145	%	02-NOV-23	16-NOV-23	R5972336
Surrogate: 13C12 PCB 155	37.0		10-145	%	02-NOV-23	16-NOV-23	R5972336
Surrogate: 13C12 PCB 167	45.0		10-145	%	02-NOV-23	16-NOV-23	R5972336
Surrogate: 13C12 PCB 156/157	46.0		10-145	%	02-NOV-23	16-NOV-23	R5972336
Surrogate: 13C12 PCB 169	49.0		10-145	%	02-NOV-23	16-NOV-23	R5972336
Surrogate: 13C12 PCB 188	41.0		10-145	%	02-NOV-23	16-NOV-23	R5972336
Surrogate: 13C12 PCB 189	44.0	M,R	10-145	%	02-NOV-23	29-NOV-23	R5972336
Surrogate: 13C12 PCB 202	45.0		10-145	%	02-NOV-23	16-NOV-23	R5972336
Surrogate: 13C12 PCB 205	48.0		10-145	%	02-NOV-23	16-NOV-23	R5972336
Surrogate: 13C12 PCB 208	43.0		10-145	%	02-NOV-23	16-NOV-23	R5972336
Surrogate: 13C12 PCB 206	46.0		10-145	%	02-NOV-23	16-NOV-23	R5972336
Surrogate: 13C12 PCB 209	29.0		10-145	%	02-NOV-23	16-NOV-23	R5972336
Surrogate: 13C12 PCB 28	37.0		5-145	%	02-NOV-23	16-NOV-23	R5972336
Surrogate: 13C12 PCB 111	46.0		10-145	%	02-NOV-23	16-NOV-23	R5972336
Surrogate: 13C12 PCB 178	45.0		10-145	%	02-NOV-23	16-NOV-23	R5972336
Total MonoCB	1.79	[J]	0.24	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
Total DiCB	20.7	[J]	0.36	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
Total TriCB	32.9	[J]	0.20	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
Total TetraCB	128	[J]	0.12	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
Total PentaCB	455	[J]	0.12	pg/g wwt	02-NOV-23	16-NOV-23	R5972336

* 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
L2751405-3 15867230619002							
Sampled By: LO/CM on 19-JUN-23							
Matrix: MOSS							
All PCB congeners by GC/HRMS							
Total HexaCB	428	[J]	0.051	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
Total HeptaCB	299	[J]	2.4	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
Total OctaCB	62.1	[J]	0.057	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
Total NonaCB	4.66	[J]	0.33	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
DecaCB	0.64	[J]	0.14	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
Total PCB	1430	[J]	1.0	pg/g wwt	02-NOV-23	16-NOV-23	R5972336
Lower Bound PCB TEQ (WHO 2005)	0.00554			pg/g wwt	02-NOV-23	16-NOV-23	R5972336
Mid Point PCB TEQ (WHO 2005)	0.222			pg/g wwt	02-NOV-23	16-NOV-23	R5972336
Upper Bound PCB TEQ (WHO 2005)	0.222			pg/g wwt	02-NOV-23	16-NOV-23	R5972336
Note: PCB-188L edited to report from the dilution run.							
Dioxins and Furans HR 1613B							
2,3,7,8-TCDD	<0.019	[U]	0.019	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,7,8-PeCDD	<0.049	[U]	0.049	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,4,7,8-HxCDD	<0.027	[U]	0.027	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,6,7,8-HxCDD	<0.028	[U]	0.028	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,7,8,9-HxCDD	<0.027	[U]	0.027	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,4,6,7,8-HpCDD	0.633	[J]	0.055	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
OCDD	2.72	[J]	0.35	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
2,3,7,8-TCDF	0.160	M,J,R	0.030	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,7,8-PeCDF	0.048	M,J,R	0.028	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
2,3,4,7,8-PeCDF	0.110	M,J	0.028	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,4,7,8-HxCDF	0.040	M,J,R	0.034	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,6,7,8-HxCDF	0.071	M,J	0.034	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
2,3,4,6,7,8-HxCDF	0.064	M,J,R	0.036	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,7,8,9-HxCDF	<0.053	[U]	0.053	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,4,6,7,8-HpCDF	0.150	[J]	0.054	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,4,7,8,9-HpCDF	<0.083	[U]	0.083	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
OCDF	0.19	M,J,R	0.13	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total-TCDD	<0.019	[U]	0.019	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total TCDD # Homologues	0				02-NOV-23	12-NOV-23	R5972336
Total-PeCDD	0.127		0.049	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total PeCDD # Homologues	1				02-NOV-23	12-NOV-23	R5972336
Total-HxCDD	0.297		0.028	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total HxCDD # Homologues	1				02-NOV-23	12-NOV-23	R5972336
Total-HpCDD	1.43		0.055	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total HpCDD # Homologues	2				02-NOV-23	12-NOV-23	R5972336
Total-TCDF	0.227		0.030	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total TCDF # Homologues	2				02-NOV-23	12-NOV-23	R5972336
Total-PeCDF	0.192		0.028	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total PeCDF # Homologues	2				02-NOV-23	12-NOV-23	R5972336
Total-HxCDF	0.226		0.053	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total HxCDF # Homologues	2				02-NOV-23	12-NOV-23	R5972336
Total-HpCDF	0.241		0.083	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total HpCDF # Homologues	2				02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-2,3,7,8-TCDD	74.0		25-164	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,7,8-PeCDD	78.0		25-181	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,4,7,8-HxCDD	91.0		32-141	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,6,7,8-HxCDD	94.0		28-130	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,4,6,7,8-HpCDD	79.0		23-140	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-OCDD	51.0		17-157	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-2,3,7,8-TCDF	73.0		24-169	%	02-NOV-23	12-NOV-23	R5972336

* 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
L2751405-3 15867230619002							
Sampled By: LO/CM on 19-JUN-23							
Matrix: MOSS							
Dioxins and Furans HR 1613B							
Surrogate: 13C12-1,2,3,7,8-PeCDF	86.0		21-192	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-2,3,4,7,8-PeCDF	79.0		21-178	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,4,7,8-HxCDF	103.0		26-152	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,6,7,8-HxCDF	102.0		26-123	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-2,3,4,6,7,8-HxCDF	97.0		29-147	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,7,8,9-HxCDF	89.0		28-136	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,4,6,7,8-HpCDF	79.0		28-143	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,4,7,8,9-HpCDF	70.0		26-138	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 37Cl4-2,3,7,8-TCDD (Cleanup)	77.0		31-197	%	02-NOV-23	12-NOV-23	R5972336
Lower Bound PCDD/F TEQ (WHO 2005)	0.0487		0	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Mid Point PCDD/F TEQ (WHO 2005)	0.118		0	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Upper Bound PCDD/F TEQ (WHO 2005)	0.159		0	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
L2751405-4 15867230619102							
Sampled By: LO/CM on 19-JUN-23							
Matrix: LAB TEA							
Miscellaneous Parameters							
% Moisture	70.4		0.10	%	02-AUG-23	03-AUG-23	R5965039
% Moisture	78.0		0.50	%		12-JUL-23	R5963338
Mercury (Hg)-Total	0.0140		0.0050	mg/kg	18-JUL-23	25-JUL-23	R5964336
Silver (Ag)-Total	<0.0050		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Sulfur (S)-Total	1110		100	mg/kg	18-JUL-23	19-JUL-23	R5964066
Titanium (Ti)-Total	1.04		0.25	mg/kg	18-JUL-23	19-JUL-23	R5964066
Total Nitrogen by Leco	1.40		0.050	%	21-JUL-23	21-JUL-23	R5964216
Metals in Tissue by CRC ICPMS (DRY)							
Aluminum (Al)-Total	71.3		2.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Antimony (Sb)-Total	<0.010		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Arsenic (As)-Total	<0.020		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Barium (Ba)-Total	109		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Beryllium (Be)-Total	<0.010		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Bismuth (Bi)-Total	<0.010		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Boron (B)-Total	18.4		1.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cadmium (Cd)-Total	0.0114		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Calcium (Ca)-Total	6800		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cesium (Cs)-Total	0.0307		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Chromium (Cr)-Total	0.093		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cobalt (Co)-Total	0.043		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Copper (Cu)-Total	3.04		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Iron (Fe)-Total	65.9		3.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Lead (Pb)-Total	0.057		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Lithium (Li)-Total	<0.50		0.50	mg/kg	18-JUL-23	19-JUL-23	R5964066
Magnesium (Mg)-Total	1430		2.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Manganese (Mn)-Total	1350		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Molybdenum (Mo)-Total	<0.020		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Nickel (Ni)-Total	1.00		0.20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Phosphorus (P)-Total	1150		10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Potassium (K)-Total	4120		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Rubidium (Rb)-Total	12.3		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Selenium (Se)-Total	<0.050		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Sodium (Na)-Total	<20		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Strontium (Sr)-Total	6.11		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066

* 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
L2751405-4 15867230619102							
Sampled By: LO/CM on 19-JUN-23							
Matrix: LAB TEA							
Metals in Tissue by CRC ICPMS (DRY)							
Tellurium (Te)-Total	<0.020		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Thallium (Tl)-Total	<0.0020		0.0020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Tin (Sn)-Total	<0.10		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Uranium (U)-Total	0.0020		0.0020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Vanadium (V)-Total	<0.10		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Zinc (Zn)-Total	23.2		0.50	mg/kg	18-JUL-23	19-JUL-23	R5964066
Zirconium (Zr)-Total	<0.20		0.20	mg/kg	18-JUL-23	19-JUL-23	R5964066
All PCB congeners by GC/HRMS							
PCB 1	6.9	[J],R	2.6	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 2	4.0	[J],R	2.6	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 3	14.1	M,[J]	2.3	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 4	<12	[U]	12	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 10	<5.2	[U]	5.2	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 9	<5.4	[U]	5.4	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 7	<5.2	[U]	5.2	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 6	15.0	M,[J]	5.5	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 5	<5.4	[U]	5.4	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 8	30.0	M,[J],R	5.1	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 14	<13	[U]	13	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 11	153	[B]	13	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 13/12	<11	[U]	11	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 15	20.0	[J],R	9.0	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 19	<9.1	[U]	9.1	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 30/18	25.0	[J]	4.9	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 17	12.9	[J]	5.5	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 27	<4.0	[U]	4.0	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 24	<4.3	[U]	4.3	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 16	7.6	[J],R	6.5	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 32	7.5	M,[J],[B]	3.9	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 34	<7.7	[U]	7.7	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 23	<7.5	[U]	7.5	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 29/26	<7.0	M,[U]	7.0	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 25	<6.7	[U]	6.7	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 31	38.6	M,[J],[B]	7.0	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 28/20	46.0	[J],R	6.9	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 21/33	28.5	[J]	6.9	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 22	17.2	[J],[B]	7.5	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 36	<6.4	[U]	6.4	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 39	<7.4	[U]	7.4	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 38	27.2	[J]	7.4	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 35	<7.7	[U]	7.7	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 37	18.0	M,[J],R	5.7	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 54	<3.6	[U]	3.6	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 50/53	<6.2	[U]	6.2	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 45/51	11.0	M,[J],R	6.4	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 46	<7.0	M,[U]	7.0	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 52	57.0	[J],R	6.5	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 73	<4.3	[U]	4.3	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 43	<7.5	[U]	7.5	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 69/49	19.0	M,[J],R	5.1	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 48	11.0	M,[J],R	6.1	pg/g wwt	25-AUG-23	01-SEP-23	R5967736

* 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
L2751405-4 15867230619102							
Sampled By: LO/CM on 19-JUN-23							
Matrix: LAB TEA							
All PCB congeners by GC/HRMS							
PCB 44/47/65	57.4	[J]	5.4	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 59/62/75	<4.6	[U]	4.6	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 42	<6.6	[U]	6.6	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 41/71/40	25.0	M,[J],R	6.2	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 64	17.0	[J]	4.4	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 72	<4.5	[U]	4.5	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 68	<4.6	[U]	4.6	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 57	<5.0	[U]	5.0	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 58	<4.8	[U]	4.8	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 67	<4.2	[U]	4.2	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 63	<4.9	[U]	4.9	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 61/70/74/76	58.7	M,[J],[B]	4.7	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 66	31.1	[J]	4.9	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 55	<5.0	[U]	5.0	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 56	15.0	[J],R	4.8	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 60	9.4	M,[J]	5.0	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 80	<4.0	M,[U]	4.0	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 79	<4.3	[U]	4.3	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 78	<5.5	[U]	5.5	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 81	<4.6	[U]	4.6	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 77	12.0	M,[J],R	4.8	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 104	<2.2	[U]	2.2	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 96	<2.8	[U]	2.8	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 103	<4.8	[U]	4.8	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 94	<5.0	[U]	5.0	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 95	56.0	[J],R	5.4	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 100/93/102/98	<4.5	[U]	4.5	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 88/91	14.7	[J]	5.0	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 84	15.4	[J]	5.2	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 89	<6.2	[U]	6.2	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 121	<3.4	[U]	3.4	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 92	18.0	[J],R	5.6	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 113/90/101	79.3	[B]	4.0	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 83/99	54.6	[J],[B]	5.1	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 112	<3.1	[U]	3.1	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 109/119/86/97/125/87	37.0	M,[J],[B]	3.3	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 117/116/85/110/115	98.0	M,R	4.5	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 82	<6.0	[U]	6.0	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 111	<3.4	[U]	3.4	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 120	<3.6	[U]	3.6	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 108/124	<3.2	[U]	3.2	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 107	6.2	M,[J],R	2.5	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 123	<3.2	[U]	3.2	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 106	<3.6	[U]	3.6	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 118	74.7	M	3.0	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 122	<4.3	[U]	4.3	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 114	<3.3	[U]	3.3	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 105	36.0	[J],R	3.2	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 127	<3.1	[U]	3.1	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 126	<3.3	[U]	3.3	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 155	<1.8	[U]	1.8	pg/g wwt	25-AUG-23	01-SEP-23	R5967736

* 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
L2751405-4 15867230619102							
Sampled By: LO/CM on 19-JUN-23							
Matrix: LAB TEA							
All PCB congeners by GC/HRMS							
PCB 152	<2.3	[U]	2.3	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 150	<2.2	[U]	2.2	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 136	10.3	M,[J]	2.6	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 145	<2.4	[U]	2.4	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 148	<3.5	[U]	3.5	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 151/135	32.5	M,[J]	3.3	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 154	<2.6	[U]	2.6	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 144	5.7	M,[J],R	3.4	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 147/149	69.6	M	3.4	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 134/143	<4.4	[U]	4.4	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 139/140	<3.5	[U]	3.5	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 131	<4.4	[U]	4.4	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 142	<4.7	[U]	4.7	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 132	20.6	[J]	4.2	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 133	<4.3	[U]	4.3	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 165	<3.1	[U]	3.1	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 146	17.0	[J],R	3.3	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 161	<3.0	[U]	3.0	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 168/153	79.2		3.0	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 141	15.0	[J],R	3.7	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 130	<4.5	[U]	4.5	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 137/164	<3.2	[U]	3.2	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 138/163/129	97.6	[B]	3.7	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 160	<3.1	[U]	3.1	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 158	8.6	[J]	2.5	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 128/166	17.3	[J]	3.4	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 159	<2.7	[U]	2.7	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 162	<2.8	[U]	2.8	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 167	<2.8	[U]	2.8	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 156/157	<3.7	[U]	3.7	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 169	<2.9	[U]	2.9	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 188	<3.8	[U]	3.8	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 179	8.7	M,[J],R	4.2	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 184	<3.9	[U]	3.9	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 176	<4.3	[U]	4.3	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 186	<4.2	[U]	4.2	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 178	<6.1	[U]	6.1	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 175	<5.7	[U]	5.7	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 187	20.5	[J]	5.1	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 182	<5.3	[U]	5.3	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 183	14.8	M,[J]	5.2	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 185	<5.5	[U]	5.5	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 174	17.1	M,[J]	5.3	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 177	9.7	[J]	5.8	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 181	<5.5	[U]	5.5	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 171/173	<5.8	[U]	5.8	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 172	<5.8	[U]	5.8	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 192	<4.7	[U]	4.7	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 180/193	26.0	[J],R	4.7	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 191	<4.4	[U]	4.4	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 170	8.8	[J],R	6.2	pg/g wwt	25-AUG-23	01-SEP-23	R5967736

* 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
L2751405-4 15867230619102							
Sampled By: LO/CM on 19-JUN-23							
Matrix: LAB TEA							
All PCB congeners by GC/HRMS							
PCB 190	<4.0	[U]	4.0	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 189	<2.1	[U]	2.1	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 202	<2.2	[U]	2.2	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 201	<2.2	[U]	2.2	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 204	<2.3	[U]	2.3	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 197	<2.3	[U]	2.3	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 200	<2.6	[U]	2.6	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 198/199	<3.5	[U]	3.5	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 196	<3.3	[U]	3.3	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 203	<3.2	[U]	3.2	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 195	<4.6	[U]	4.6	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 194	<4.5	M,[U]	4.5	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 205	<3.8	[U]	3.8	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 208	<7.9	[U]	7.9	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 207	<9.2	[U]	9.2	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 206	<15	[U]	15	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 209	<30	[U]	30	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 1	39.0		5-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 3	46.0		5-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 4	41.0		5-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 15	44.0		5-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 19	36.0		5-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 37	47.0		5-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 54	33.0		5-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 81	48.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 77	48.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 104	39.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 123	47.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 118	46.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 114	45.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 105	46.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 126	47.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 155	42.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 167	49.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 156/157	48.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 169	48.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 188	43.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 189	45.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 202	43.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 205	48.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 208	48.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 206	45.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 209	47.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 28	67.0		5-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 111	69.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 178	69.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Total MonoCB	25.0	[J]	2.3	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
Total DiCB	218	[J]	5.1	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
Total TriCB	228	[J]	3.9	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
Total TetraCB	324	[J]	3.6	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
Total PentaCB	490	[J]	2.2	pg/g wwt	25-AUG-23	01-SEP-23	R5967736

* 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
L2751405-4 15867230619102							
Sampled By: LO/CM on 19-JUN-23							
Matrix: LAB TEA							
All PCB congeners by GC/HRMS							
Total HexaCB	373	[J]	1.8	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
Total HeptaCB	106	[J]	2.1	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
Total OctaCB	<2.2	[U]	2.2	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
Total NonaCB	<7.9	[U]	7.9	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
DecaCB	<30	[U]	30	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
Total PCB	1760	[J]	1.0	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
Lower Bound PCB TEQ (WHO 2005)	0.00224			pg/g wwt	25-AUG-23	01-SEP-23	R5967736
Mid Point PCB TEQ (WHO 2005)	0.214			pg/g wwt	25-AUG-23	01-SEP-23	R5967736
Upper Bound PCB TEQ (WHO 2005)	0.423			pg/g wwt	25-AUG-23	01-SEP-23	R5967736
Dioxins and Furans HR 1613B							
2,3,7,8-TCDD	<4.6	[U]	4.6	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
1,2,3,7,8-PeCDD	<5.0	[U]	5.0	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
1,2,3,4,7,8-HxCDD	<4.2	[U]	4.2	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
1,2,3,6,7,8-HxCDD	<4.5	[U]	4.5	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
1,2,3,7,8,9-HxCDD	<4.3	[U]	4.3	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
1,2,3,4,6,7,8-HpCDD	<5.1	M,U	5.1	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
OCDD	11.0	M,J,R	9.9	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
2,3,7,8-TCDF	<5.2	[U]	5.2	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
1,2,3,7,8-PeCDF	<2.6	[U]	2.6	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
2,3,4,7,8-PeCDF	<2.6	[U]	2.6	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
1,2,3,4,7,8-HxCDF	<1.7	[U]	1.7	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
1,2,3,6,7,8-HxCDF	<1.7	[U]	1.7	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
2,3,4,6,7,8-HxCDF	<1.6	[U]	1.6	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
1,2,3,7,8,9-HxCDF	<2.4	[U]	2.4	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
1,2,3,4,6,7,8-HpCDF	<2.8	[U]	2.8	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
1,2,3,4,7,8,9-HpCDF	<3.5	[U]	3.5	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
OCDF	<6.9	[U]	6.9	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
Total-TCDD	<4.6	[U]	4.6	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
Total TCDD # Homologues	0				02-AUG-23	19-AUG-23	R5967776
Total-PeCDD	<5.0	[U]	5.0	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
Total PeCDD # Homologues	0				02-AUG-23	19-AUG-23	R5967776
Total-HxCDD	<4.5	[U]	4.5	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
Total HxCDD # Homologues	0				02-AUG-23	19-AUG-23	R5967776
Total-HpCDD	<5.1	[U]	5.1	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
Total HpCDD # Homologues	0				02-AUG-23	19-AUG-23	R5967776
Total-TCDF	<5.2	[U]	5.2	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
Total TCDF # Homologues	0				02-AUG-23	19-AUG-23	R5967776
Total-PeCDF	<2.6	[U]	2.6	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
Total PeCDF # Homologues	0				02-AUG-23	19-AUG-23	R5967776
Total-HxCDF	<2.4	[U]	2.4	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
Total HxCDF # Homologues	0				02-AUG-23	19-AUG-23	R5967776
Total-HpCDF	<3.5	[U]	3.5	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
Total HpCDF # Homologues	0				02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-2,3,7,8-TCDD	34.0		25-164	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-1,2,3,7,8-PeCDD	35.0		25-181	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-1,2,3,4,7,8-HxCDD	38.0		32-141	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-1,2,3,6,7,8-HxCDD	35.0		28-130	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-1,2,3,4,6,7,8-HpCDD	43.0		23-140	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-OCDD	38.0		17-157	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-2,3,7,8-TCDF	33.0		24-169	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-1,2,3,7,8-PeCDF	40.0		21-192	%	02-AUG-23	19-AUG-23	R5967776

* 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
L2751405-4 15867230619102							
Sampled By: LO/CM on 19-JUN-23							
Matrix: LAB TEA							
Dioxins and Furans HR 1613B							
Surrogate: 13C12-2,3,4,7,8-PeCDF	36.0		21-178	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-1,2,3,4,7,8-HxCDF	42.0		26-152	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-1,2,3,6,7,8-HxCDF	40.0		26-123	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-2,3,4,6,7,8-HxCDF	42.0		29-147	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-1,2,3,7,8,9-HxCDF	40.0		28-136	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-1,2,3,4,6,7,8-HpCDF	41.0		28-143	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-1,2,3,4,7,8,9-HpCDF	44.0		26-138	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 37Cl4-2,3,7,8-TCDD (Cleanup)	50.0		31-197	%	02-AUG-23	19-AUG-23	R5967776
Lower Bound PCDD/F TEQ (WHO 2005)	0.00		0	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
Mid Point PCDD/F TEQ (WHO 2005)	6.57		0	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
Upper Bound PCDD/F TEQ (WHO 2005)	13.1		0	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
L2751405-5 15867230619003							
Sampled By: LO/CM on 19-JUN-23							
Matrix: MOSS							
All PCB congeners by GC/HRMS							
PCB 1	6.99	M	0.28	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 2	2.10	M,J,R	0.32	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 3	4.20	M,J,R	0.27	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 4	42.8		1.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 10	2.00	J,R	0.52	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 9	8.77		0.51	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 7	2.90	J,R	0.50	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 6	26.3		0.52	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 5	2.50	M,J	0.57	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 8	124	M	0.48	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 14	<1.2	[U]	1.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 11	17.5	[B]	1.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 13/12	12.9		1.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 15	137	M	1.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 19	14.2		0.24	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 30/18	111		0.38	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 17	55.3		0.44	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 27	9.46		0.33	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 24	1.70	J,R	0.37	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 16	49.3		0.48	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 32	41.9		0.31	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 34	0.92	M,J,R	0.61	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 23	<0.61	[U]	0.61	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 29/26	41.2		0.57	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 25	24.0		0.54	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 31	354		0.56	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 28/20	344		0.57	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 21/33	120		0.56	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 22	140		0.62	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 36	<0.52	M,U	0.52	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 39	2.75	[J]	0.60	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 38	1.34	[J]	0.59	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 35	29.7		0.64	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 37	346		0.60	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 54	0.50	[J]	0.15	pg/g wwt	02-NOV-23	17-NOV-23	R5972336

* 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
L2751405-5 15867230619003							
Sampled By: LO/CM on 19-JUN-23							
Matrix: MOSS							
All PCB congeners by GC/HRMS							
PCB 50/53	28.2		0.25	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 45/51	31.2		0.25	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 46	12.9		0.28	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 52	782		0.25	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 73	<0.18	[U]	0.18	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 43	8.64		0.29	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 69/49	360		0.20	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 48	42.9		0.24	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 44/47/65	490		0.22	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 59/62/75	29.3		0.18	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 42	125		0.27	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 41/71/40	171		0.24	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 64	332		0.18	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 72	9.97		0.69	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 68	3.70	[J]	0.67	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 57	3.57	[J]	0.70	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 58	<0.68	[U]	0.68	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 67	30.6		0.61	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 63	41.6		0.67	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 61/70/74/76	3750		0.69	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 66	1480		0.67	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 55	22.6		0.72	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 56	579		0.70	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 60	366		0.71	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 80	<0.57	[U]	0.57	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 79	68.6		0.61	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 78	3.66	[J]	0.76	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 81	24.9		0.57	pg/g wwt	02-NOV-23	09-DEC-23	R5972336
PCB 77	832		0.50	pg/g wwt	02-NOV-23	09-DEC-23	R5972336
PCB 104	0.17	J,R	0.12	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 96	10.6		0.14	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 103	14.7		0.56	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 94	7.44		0.57	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 95	2540	M	0.63	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 100/93/102/98	60.9	M	0.53	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 88/91	420		0.57	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 84	766		0.59	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 89	29.3		0.67	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 121	<0.39	[U]	0.39	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 92	827		0.63	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 113/90/101	5460		0.47	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 83/99	3320		0.57	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 112	<0.37	[U]	0.37	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 109/119/86/97/125/87	3900	M	0.45	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 117/116/85/110/115	8870	M	0.43	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 82	795		0.64	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 111	1.68	[J]	0.39	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 120	20.9		0.38	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 108/124	401		0.73	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 107	618		0.61	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 123	192		0.82	pg/g wwt	02-NOV-23	17-NOV-23	R5972336

* 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
L2751405-5 15867230619003							
Sampled By: LO/CM on 19-JUN-23							
Matrix: MOSS							
All PCB congeners by GC/HRMS							
PCB 106	<0.83	[U]	0.83	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 118	10000		0.73	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 122	168		0.97	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 114	312		0.80	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 105	5670		0.71	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 127	23.6		0.72	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 126	198		0.42	pg/g wwt	02-NOV-23	09-DEC-23	R5972336
PCB 155	0.320	J,R	0.097	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 152	3.83	[J]	0.13	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 150	12.8		0.13	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 136	995	M	0.13	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 145	2.40	M,J,R	0.13	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 148	7.23		0.18	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 151/135	3100		0.18	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 154	56.0	R	0.14	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 144	523		0.18	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 147/149	7290		1.5	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 134/143	389		1.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 139/140	141		1.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 131	122		1.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 142	<1.8	[U]	1.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 132	3370		1.7	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 133	136		1.6	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 165	29.7		1.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 146	1490		1.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 161	<1.2	[U]	1.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 168/153	11000		1.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 141	2480		1.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 130	754		1.7	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 137/164	1440	M	1.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 138/163/129	15700		1.5	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 160	<1.1	[U]	1.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 158	1440		1.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 128/166	2380		1.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 159	178	M	1.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 162	60.5		1.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 167	740		1.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 156/157	2260		1.6	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 169	11.8		0.32	pg/g wwt	02-NOV-23	09-DEC-23	R5972336
PCB 188	<44	[U]	44	pg/g wwt	02-NOV-23	02-DEC-23	R5972336
PCB 179	1230		36	pg/g wwt	02-NOV-23	02-DEC-23	R5972336
PCB 184	<38	[U]	38	pg/g wwt	02-NOV-23	02-DEC-23	R5972336
PCB 176	428		37	pg/g wwt	02-NOV-23	02-DEC-23	R5972336
PCB 186	<41	[U]	41	pg/g wwt	02-NOV-23	02-DEC-23	R5972336
PCB 178	708	M	54	pg/g wwt	02-NOV-23	02-DEC-23	R5972336
PCB 175	184	[J]	51	pg/g wwt	02-NOV-23	02-DEC-23	R5972336
PCB 187	4990		49	pg/g wwt	02-NOV-23	02-DEC-23	R5972336
PCB 182	<48	[U]	48	pg/g wwt	02-NOV-23	02-DEC-23	R5972336
PCB 183	2280		46	pg/g wwt	02-NOV-23	02-DEC-23	R5972336
PCB 185	370	M	58	pg/g wwt	02-NOV-23	02-DEC-23	R5972336
PCB 174	4110	M	50	pg/g wwt	02-NOV-23	02-DEC-23	R5972336

* 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
L2751405-5 15867230619003							
Sampled By: LO/CM on 19-JUN-23							
Matrix: MOSS							
All PCB congeners by GC/HRMS							
PCB 177	2480		52	pg/g wwt	02-NOV-23	02-DEC-23	R5972336
PCB 181	65	J,R	56	pg/g wwt	02-NOV-23	02-DEC-23	R5972336
PCB 171/173	1340		54	pg/g wwt	02-NOV-23	02-DEC-23	R5972336
PCB 172	955		54	pg/g wwt	02-NOV-23	02-DEC-23	R5972336
PCB 192	<49	[U]	49	pg/g wwt	02-NOV-23	02-DEC-23	R5972336
PCB 180/193	11100		44	pg/g wwt	02-NOV-23	02-DEC-23	R5972336
PCB 191	199		40	pg/g wwt	02-NOV-23	02-DEC-23	R5972336
PCB 170	5090		55	pg/g wwt	02-NOV-23	02-DEC-23	R5972336
PCB 190	1000	M	37	pg/g wwt	02-NOV-23	02-DEC-23	R5972336
PCB 189	143	M,J	34	pg/g wwt	02-NOV-23	02-DEC-23	R5972336
PCB 202	287		0.13	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 201	196		0.13	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 204	0.59	[J]	0.14	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 197	77.5		0.14	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 200	245		0.14	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 198/199	2530		0.19	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 196	1260		0.19	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 203	1490		0.19	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 195	730		0.65	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 194	2650		0.65	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 205	122	M	0.55	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 208	75.8		0.45	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 207	54.9		0.46	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 206	540		0.80	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 209	100		0.16	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 1	18.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 3	22.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 4	20.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 15	26.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 19	28.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 37	24.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 54	22.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 81	31.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 77	30.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 104	27.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 123	32.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 118	33.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 114	31.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 105	33.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 126	32.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 155	29.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 167	38.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 156/157	37.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 169	40.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 188	33.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 189	41.0	M	10-145	%	02-NOV-23	02-DEC-23	R5972336
Surrogate: 13C12 PCB 202	36.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 205	41.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 208	38.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 206	40.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 209	27.0		10-145	%	02-NOV-23	17-NOV-23	R5972336

* 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
L2751405-5 15867230619003							
Sampled By: LO/CM on 19-JUN-23							
Matrix: MOSS							
All PCB congeners by GC/HRMS							
Surrogate: 13C12 PCB 28	28.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 111	38.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 178	35.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Total MonoCB	13.3	[J]	0.27	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Total DiCB	377	[J]	0.48	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Total TriCB	1690	[J]	0.24	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Total TetraCB	9630	[J]	0.15	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Total PentaCB	44600	[J]	0.12	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Total HexaCB	56100	[J]	0.097	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Total HeptaCB	36700	[J]	34	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Total OctaCB	9590	[J]	0.13	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Total NonaCB	671	[J]	0.45	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
DecaCB	100	[J]	0.16	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Total PCB	159000	[J]	1.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Lower Bound PCB TEQ (WHO 2005)	20.8			pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Mid Point PCB TEQ (WHO 2005)	20.8			pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Upper Bound PCB TEQ (WHO 2005)	20.8			pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Note: PCB-188L edited to report from the dilution run.							
Dioxins and Furans HR 1613B							
2,3,7,8-TCDD	<0.068	EMPC	0.068	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
1,2,3,7,8-PeCDD	0.17	EMPC	0.15	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
1,2,3,4,7,8-HxCDD	0.32	M,J	0.11	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
1,2,3,6,7,8-HxCDD	0.61	[J]	0.10	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
1,2,3,7,8,9-HxCDD	0.44	J,R	0.10	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
1,2,3,4,6,7,8-HpCDD	6.70		0.23	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
OCDD	29.1		0.11	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
2,3,7,8-TCDF	5.69	M	0.064	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
1,2,3,7,8-PeCDF	1.07	[J]	0.076	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
2,3,4,7,8-PeCDF	2.23	[J]	0.073	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
1,2,3,4,7,8-HxCDF	1.08	[J]	0.055	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
1,2,3,6,7,8-HxCDF	0.741	[J]	0.049	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
2,3,4,6,7,8-HxCDF	0.967	[J]	0.051	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
1,2,3,7,8,9-HxCDF	0.220	M,J,R	0.073	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
1,2,3,4,6,7,8-HpCDF	3.47	[J]	0.074	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
1,2,3,4,7,8,9-HpCDF	0.36	J,R	0.10	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
OCDF	3.41	J,B	0.44	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
Total-TCDD	<0.068	[U]	0.068	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
Total TCDD # Homologues	0				02-NOV-23	01-DEC-23	R5973319
Total-PeCDD	1.03		0.15	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
Total PeCDD # Homologues	3				02-NOV-23	01-DEC-23	R5973319
Total-HxCDD	4.79		0.11	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
Total HxCDD # Homologues	4				02-NOV-23	01-DEC-23	R5973319
Total-HpCDD	14.1		0.23	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
Total HpCDD # Homologues	2				02-NOV-23	01-DEC-23	R5973319
Total-TCDF	22.5		0.064	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
Total TCDF # Homologues	13				02-NOV-23	01-DEC-23	R5973319
Total-PeCDF	15.6		0.076	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
Total PeCDF # Homologues	9				02-NOV-23	01-DEC-23	R5973319
Total-HxCDF	6.81		0.073	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
Total HxCDF # Homologues	8				02-NOV-23	01-DEC-23	R5973319
Total-HpCDF	4.02		0.10	pg/g wwt	02-NOV-23	01-DEC-23	R5973319

* 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
L2751405-5 15867230619003							
Sampled By: LO/CM on 19-JUN-23							
Matrix: MOSS							
Dioxins and Furans HR 1613B							
Total HpCDF # Homologues	2				02-NOV-23	01-DEC-23	R5973319
Surrogate: 13C12-2,3,7,8-TCDD	77.0		25-164	%	02-NOV-23	01-DEC-23	R5973319
Surrogate: 13C12-1,2,3,7,8-PeCDD	68.0		25-181	%	02-NOV-23	01-DEC-23	R5973319
Surrogate: 13C12-1,2,3,4,7,8-HxCDD	87.0		32-141	%	02-NOV-23	01-DEC-23	R5973319
Surrogate: 13C12-1,2,3,6,7,8-HxCDD	88.0		28-130	%	02-NOV-23	01-DEC-23	R5973319
Surrogate: 13C12-1,2,3,4,6,7,8-HpCDD	82.0		23-140	%	02-NOV-23	01-DEC-23	R5973319
Surrogate: 13C12-OCDD	82.0		17-157	%	02-NOV-23	01-DEC-23	R5973319
Surrogate: 13C12-2,3,7,8-TCDF	68.0		24-169	%	02-NOV-23	01-DEC-23	R5973319
Surrogate: 13C12-1,2,3,7,8-PeCDF	70.0		21-192	%	02-NOV-23	01-DEC-23	R5973319
Surrogate: 13C12-2,3,4,7,8-PeCDF	67.0		21-178	%	02-NOV-23	01-DEC-23	R5973319
Surrogate: 13C12-1,2,3,4,7,8-HxCDF	86.0		26-152	%	02-NOV-23	01-DEC-23	R5973319
Surrogate: 13C12-1,2,3,6,7,8-HxCDF	90.0		26-123	%	02-NOV-23	01-DEC-23	R5973319
Surrogate: 13C12-2,3,4,6,7,8-HxCDF	87.0		29-147	%	02-NOV-23	01-DEC-23	R5973319
Surrogate: 13C12-1,2,3,7,8,9-HxCDF	77.0		28-136	%	02-NOV-23	01-DEC-23	R5973319
Surrogate: 13C12-1,2,3,4,6,7,8-HpCDF	73.0		28-143	%	02-NOV-23	01-DEC-23	R5973319
Surrogate: 13C12-1,2,3,4,7,8,9-HpCDF	72.0		26-138	%	02-NOV-23	01-DEC-23	R5973319
Surrogate: 37Cl4-2,3,7,8-TCDD (Cleanup)	76.0		31-197	%	02-NOV-23	01-DEC-23	R5973319
Lower Bound PCDD/F TEQ (WHO 2005)	1.75		0	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
Mid Point PCDD/F TEQ (WHO 2005)	2.06		0	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
Upper Bound PCDD/F TEQ (WHO 2005)	2.06		0	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
L2751405-6 15867230619103							
Sampled By: LO/CM on 19-JUN-23							
Matrix: LAB TEA							
Miscellaneous Parameters							
% Moisture	80.3		0.10	%	02-AUG-23	03-AUG-23	R5965039
% Moisture	84.6		0.50	%		12-JUL-23	R5963338
Mercury (Hg)-Total	0.0243		0.0050	mg/kg	18-JUL-23	25-JUL-23	R5964336
Silver (Ag)-Total	<0.0050		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Sulfur (S)-Total	1270		100	mg/kg	18-JUL-23	19-JUL-23	R5964066
Titanium (Ti)-Total	2.62		0.25	mg/kg	18-JUL-23	19-JUL-23	R5964066
Total Nitrogen by Leco	1.59		0.050	%	21-JUL-23	21-JUL-23	R5964216
Metals in Tissue by CRC ICPMS (DRY)							
Aluminum (Al)-Total	121		2.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Antimony (Sb)-Total	0.043		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Arsenic (As)-Total	0.079		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Barium (Ba)-Total	111		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Beryllium (Be)-Total	<0.010		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Bismuth (Bi)-Total	0.010		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Boron (B)-Total	26.8		1.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cadmium (Cd)-Total	0.0171		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Calcium (Ca)-Total	7190		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cesium (Cs)-Total	0.0315		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Chromium (Cr)-Total	0.184		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cobalt (Co)-Total	0.069		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Copper (Cu)-Total	3.67		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Iron (Fe)-Total	136		3.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Lead (Pb)-Total	0.317		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Lithium (Li)-Total	<0.50		0.50	mg/kg	18-JUL-23	19-JUL-23	R5964066
Magnesium (Mg)-Total	1570		2.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Manganese (Mn)-Total	944		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066

* 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
L2751405-6 15867230619103							
Sampled By: LO/CM on 19-JUN-23							
Matrix: LAB TEA							
Metals in Tissue by CRC ICPMS (DRY)							
Molybdenum (Mo)-Total	0.046		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Nickel (Ni)-Total	0.59		0.20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Phosphorus (P)-Total	1230		10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Potassium (K)-Total	3920		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Rubidium (Rb)-Total	13.7		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Selenium (Se)-Total	<0.050		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Sodium (Na)-Total	51		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Strontium (Sr)-Total	6.05		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Tellurium (Te)-Total	<0.020		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Thallium (Tl)-Total	0.0426		0.0020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Tin (Sn)-Total	<0.10		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Uranium (U)-Total	0.0045		0.0020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Vanadium (V)-Total	0.20		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Zinc (Zn)-Total	41.0		0.50	mg/kg	18-JUL-23	19-JUL-23	R5964066
Zirconium (Zr)-Total	<0.20		0.20	mg/kg	18-JUL-23	19-JUL-23	R5964066
All PCB congeners by GC/HRMS							
PCB 1	13.1	M,[J],[B]	4.5	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 2	10.0	[J],R	4.4	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 3	15.0	[J],R	3.8	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 4	<18	[U]	18	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 10	<7.4	[U]	7.4	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 9	<7.7	[U]	7.7	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 7	<7.4	[U]	7.4	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 6	<7.9	[U]	7.9	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 5	<7.8	[U]	7.8	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 8	71.0	M,[J],R	7.3	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 14	<22	[U]	22	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 11	200	R	22	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 13/12	<19	M,[U]	19	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 15	93		15	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 19	<14	[U]	14	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 30/18	83.0	M,[J],R	8.8	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 17	32.0	[J],R	9.9	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 27	<7.2	M,[U]	7.2	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 24	<7.7	[U]	7.7	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 16	42	M,[J],R	12	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 32	37.7	M,[J],[B]	7.0	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 34	<10	[U]	10	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 23	<9.8	[U]	9.8	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 29/26	23.0	[J],R	9.2	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 25	12.0	[J],R	8.7	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 31	178	[B]	9.2	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 28/20	371		9.1	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 21/33	91.0	[J],R	9.1	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 22	77.8	[J],[B]	9.9	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 36	<8.4	[U]	8.4	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 39	<9.7	[U]	9.7	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 38	24.0	[J],R	9.7	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 35	38	[J]	10	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 37	313		7.4	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 54	<5.6	[U]	5.6	pg/g wwt	25-AUG-23	01-SEP-23	R5967736

* 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
L2751405-6 15867230619103							
Sampled By: LO/CM on 19-JUN-23							
Matrix: LAB TEA							
All PCB congeners by GC/HRMS							
PCB 50/53	27	[J],R	10	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 45/51	22	M,[J],R	10	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 46	<11	[U]	11	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 52	561		10	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 73	<6.9	[U]	6.9	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 43	<12	[U]	12	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 69/49	160	R	8.1	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 48	39.9	[J],[B]	9.8	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 44/47/65	358		8.6	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 59/62/75	20.0	[J],R	7.3	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 42	80	[J]	11	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 41/71/40	134	M,[B]	9.9	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 64	132		7.0	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 72	<11	M,[U]	11	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 68	<11	[U]	11	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 57	<12	[U]	12	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 58	<11	[U]	11	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 67	21.0	[J],R	9.7	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 63	36	[J]	12	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 61/70/74/76	1650		11	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 66	1070		11	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 55	15	[J],R	12	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 56	254		11	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 60	276		12	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 80	<9.4	[U]	9.4	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 79	42	[J]	10	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 78	<13	[U]	13	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 81	23	[J]	11	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 77	809		11	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 104	<3.0	[U]	3.0	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 96	<3.9	[U]	3.9	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 103	13	M,[J],R	12	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 94	<13	M,[U]	13	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 95	1480		14	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 100/93/102/98	49	M,[J],R	12	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 88/91	160	R	13	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 84	308		13	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 89	<16	M,[U]	16	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 121	<8.7	[U]	8.7	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 92	619		14	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 113/90/101	2580		10	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 83/99	2280		13	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 112	<8.1	[U]	8.1	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 109/119/86/97/125/87	1340	M	8.5	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 117/116/85/110/115	4710	M	12	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 82	314		15	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 111	<8.7	[U]	8.7	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 120	32.0	M,[J],R	9.2	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 108/124	182		9.2	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 107	299		7.4	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 123	89.4	[J]	9.5	pg/g wwt	25-AUG-23	01-SEP-23	R5967736

* 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
L2751405-6 15867230619103							
Sampled By: LO/CM on 19-JUN-23							
Matrix: LAB TEA							
All PCB congeners by GC/HRMS							
PCB 106	<11	[U]	11	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 118	4860	M	8.8	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 122	40	[J],R	12	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 114	120		9.5	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 105	2420		8.6	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 127	12.4	[J]	9.1	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 126	96		10	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 155	<3.9	[U]	3.9	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 152	<4.9	[J],R	4.9	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 150	7.3	[J]	4.7	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 136	410		5.5	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 145	<5.1	[U]	5.1	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 148	<7.5	[U]	7.5	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 151/135	1690		7.1	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 154	71.2	[J]	5.5	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 144	274		7.3	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 147/149	3060	M	8.3	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 134/143	148		11	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 139/140	89.5	[J]	8.6	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 131	50	[J]	11	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 142	<12	[U]	12	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 132	1370		10	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 133	93		11	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 165	15.0	M,[J],R	7.5	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 146	952		8.2	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 161	<7.4	[U]	7.4	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 168/153	6050		7.4	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 141	1110		9.1	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 130	354		11	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 137/164	629	M	7.9	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 138/163/129	6920		9.0	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 160	<7.6	[U]	7.6	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 158	626		6.2	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 128/166	949		8.4	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 159	58.9	[J]	6.6	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 162	25.7	M,[J]	6.9	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 167	267		6.7	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 156/157	539		8.9	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 169	<7.4	M,[U]	7.4	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 188	6.3	[J],R	4.8	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 179	524		5.4	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 184	<5.0	M,[U]	5.0	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 176	184		5.5	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 186	<5.5	[U]	5.5	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 178	351		7.9	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 175	68.0	[J],R	7.3	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 187	1850		6.6	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 182	18.0	[J],R	6.8	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 183	1080		6.8	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 185	73.8	M,[J]	7.1	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 174	1460	M	6.9	pg/g wwt	25-AUG-23	01-SEP-23	R5967736

* 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
L2751405-6 15867230619103							
Sampled By: LO/CM on 19-JUN-23							
Matrix: LAB TEA							
All PCB congeners by GC/HRMS							
PCB 177	862		7.6	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 181	<7.1	[U]	7.1	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 171/173	475		7.6	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 172	290		7.5	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 192	<6.1	[U]	6.1	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 180/193	3350	M	6.0	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 191	59.0	[J],R	5.7	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 170	620	R	8.0	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 190	244		5.2	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 189	27	M,[J],R	11	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 202	70.0	[J],R	7.2	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 201	28.0	[J],R	7.1	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 204	<7.4	[U]	7.4	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 197	19.0	[J],R	7.3	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 200	38.0	[J],R	8.2	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 198/199	470		11	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 196	220	R	11	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 203	240	R	10	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 195	51.0	[J],R	6.3	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 194	367		6.1	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 205	16.0	[J],R	5.0	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 208	<12	[U]	12	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 207	<13	[U]	13	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 206	51	M,[J]	21	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 209	<61	[U]	61	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 1	25.0		5-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 3	32.0		5-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 4	28.0		5-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 15	33.0		5-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 19	23.0		5-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 37	35.0		5-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 54	27.0		5-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 81	36.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 77	36.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 104	32.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 123	37.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 118	37.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 114	36.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 105	39.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 126	36.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 155	33.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 167	39.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 156/157	38.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 169	37.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 188	35.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 189	31.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 202	34.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 205	38.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 208	38.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 206	37.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 209	32.0		10-145	%	25-AUG-23	02-SEP-23	R5967736

* 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
L2751405-6 15867230619103							
Sampled By: LO/CM on 19-JUN-23							
Matrix: LAB TEA							
All PCB congeners by GC/HRMS							
Surrogate: 13C12 PCB 28	62.0		5-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 111	65.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 178	63.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Total MonoCB	38.1	[J]	3.8	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
Total DiCB	364	[J]	7.3	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
Total TriCB	1320	[J]	7.0	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
Total TetraCB	5730	[J]	5.6	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
Total PentaCB	22000	[J]	3.0	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
Total HexaCB	25800	[J]	3.9	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
Total HeptaCB	11500	[J]	4.8	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
Total OctaCB	1520	[J]	5.0	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
Total NonaCB	51	[J]	12	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
DecaCB	<61	[U]	61	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
Total PCB	68300	[J]	1.0	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
Lower Bound PCB TEQ (WHO 2005)	9.98			pg/g wwt	25-AUG-23	01-SEP-23	R5967736
Mid Point PCB TEQ (WHO 2005)	10.1			pg/g wwt	25-AUG-23	01-SEP-23	R5967736
Upper Bound PCB TEQ (WHO 2005)	10.2			pg/g wwt	25-AUG-23	01-SEP-23	R5967736
Dioxins and Furans HR 1613B							
2,3,7,8-TCDD	<6.5	[U]	6.5	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
1,2,3,7,8-PeCDD	<5.9	[U]	5.9	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
1,2,3,4,7,8-HxCDD	<5.0	[U]	5.0	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
1,2,3,6,7,8-HxCDD	<5.4	[U]	5.4	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
1,2,3,7,8,9-HxCDD	<5.2	[U]	5.2	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
1,2,3,4,6,7,8-HpCDD	<6.5	M,U	6.5	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
OCDD	16	M,J,R	12	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
2,3,7,8-TCDF	<4.5	[U]	4.5	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
1,2,3,7,8-PeCDF	<4.2	[U]	4.2	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
2,3,4,7,8-PeCDF	<4.0	[U]	4.0	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
1,2,3,4,7,8-HxCDF	<4.2	[U]	4.2	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
1,2,3,6,7,8-HxCDF	<4.0	[U]	4.0	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
2,3,4,6,7,8-HxCDF	<3.7	[U]	3.7	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
1,2,3,7,8,9-HxCDF	<5.2	[U]	5.2	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
1,2,3,4,6,7,8-HpCDF	<5.2	[U]	5.2	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
1,2,3,4,7,8,9-HpCDF	<7.0	[U]	7.0	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
OCDF	<11	[U]	11	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
Total-TCDD	<6.5	[U]	6.5	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
Total TCDD # Homologues	0				02-AUG-23	19-AUG-23	R5967776
Total-PeCDD	<5.9	[U]	5.9	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
Total PeCDD # Homologues	0				02-AUG-23	19-AUG-23	R5967776
Total-HxCDD	<5.4	[U]	5.4	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
Total HxCDD # Homologues	0				02-AUG-23	19-AUG-23	R5967776
Total-HpCDD	<6.5	[U]	6.5	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
Total HpCDD # Homologues	0				02-AUG-23	19-AUG-23	R5967776
Total-TCDF	<4.5	[U]	4.5	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
Total TCDF # Homologues	0				02-AUG-23	19-AUG-23	R5967776
Total-PeCDF	4.6		4.2	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
Total PeCDF # Homologues	1				02-AUG-23	19-AUG-23	R5967776
Total-HxCDF	<5.2	[U]	5.2	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
Total HxCDF # Homologues	0				02-AUG-23	19-AUG-23	R5967776
Total-HpCDF	<7.0	[U]	7.0	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
Total HpCDF # Homologues	0				02-AUG-23	19-AUG-23	R5967776

* 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
L2751405-6 15867230619103							
Sampled By: LO/CM on 19-JUN-23							
Matrix: LAB TEA							
Dioxins and Furans HR 1613B							
Surrogate: 13C12-2,3,7,8-TCDD	27.0		25-164	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-1,2,3,7,8-PeCDD	29.0		25-181	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-1,2,3,4,7,8-HxCDD	35.0		32-141	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-1,2,3,6,7,8-HxCDD	32.0		28-130	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-1,2,3,4,6,7,8-HpCDD	39.0		23-140	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-OCDD	34.0		17-157	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-2,3,7,8-TCDF	27.0		24-169	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-1,2,3,7,8-PeCDF	34.0		21-192	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-2,3,4,7,8-PeCDF	31.0		21-178	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-1,2,3,4,7,8-HxCDF	37.0		26-152	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-1,2,3,6,7,8-HxCDF	35.0		26-123	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-2,3,4,6,7,8-HxCDF	40.0		29-147	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-1,2,3,7,8,9-HxCDF	37.0		28-136	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-1,2,3,4,6,7,8-HpCDF	37.0		28-143	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-1,2,3,4,7,8,9-HpCDF	39.0		26-138	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 37Cl4-2,3,7,8-TCDD (Cleanup)	45.0		31-197	%	02-AUG-23	19-AUG-23	R5967776
Lower Bound PCDD/F TEQ (WHO 2005)	0.00		0	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
Mid Point PCDD/F TEQ (WHO 2005)	8.82		0	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
Upper Bound PCDD/F TEQ (WHO 2005)	17.6		0	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
L2751405-7 15867230619004							
Sampled By: LO/CM on 19-JUN-23							
Matrix: MOSS							
All PCB congeners by GC/HRMS							
PCB 1	0.450	M,J,R	0.096	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 2	0.400	J,R	0.081	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 3	0.404	[J]	0.078	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 4	<0.90	[U]	0.90	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 10	<0.34	[U]	0.34	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 9	<0.38	[U]	0.38	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 7	<0.40	[U]	0.40	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 6	<0.38	[U]	0.38	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 5	<0.43	[U]	0.43	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 8	1.40	M,J,R	0.34	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 14	<0.39	[U]	0.39	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 11	14.3	M,B	0.39	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 13/12	0.48	M,J,R	0.39	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 15	0.93	M,J	0.31	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 19	0.23	M,J	0.11	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 30/18	0.988	M,J	0.099	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 17	0.35	J,R	0.11	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 27	<0.083	M,U	0.083	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 24	<0.094	[U]	0.094	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 16	0.46	M,J,R	0.14	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 32	0.361	[J]	0.078	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 34	<0.11	[U]	0.11	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 23	<0.12	[U]	0.12	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 29/26	0.17	M,J,R	0.11	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 25	0.17	M,J	0.11	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 31	1.23	[J]	0.11	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 28/20	1.40	J,R	0.11	pg/g wwt	02-NOV-23	29-NOV-23	R5972336

* 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
L2751405-7 15867230619004							
Sampled By: LO/CM on 19-JUN-23							
Matrix: MOSS							
All PCB congeners by GC/HRMS							
PCB 21/33	0.51	J,R	0.11	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 22	0.51	J,R	0.13	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 36	<0.10	[U]	0.10	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 39	<0.12	[U]	0.12	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 38	0.71	J,R	0.11	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 35	0.13	M,J	0.12	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 37	0.57	M,J	0.10	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 54	<0.060	[U]	0.060	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 50/53	<0.098	[U]	0.098	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 45/51	0.550	M,J	0.099	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 46	<0.11	[U]	0.11	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 52	1.68	[J]	0.096	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 73	<0.071	[U]	0.071	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 43	<0.12	[U]	0.12	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 69/49	0.600	[J]	0.077	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 48	0.240	[J]	0.098	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 44/47/65	2.48	[J]	0.086	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 59/62/75	0.140	M,J,R	0.072	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 42	0.26	M,J,R	0.10	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 41/71/40	0.685	M,J	0.097	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 64	0.500	M,J,R	0.069	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 72	<0.11	M,U	0.11	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 68	0.22	M,J	0.11	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 57	<0.11	[U]	0.11	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 58	<0.12	[U]	0.12	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 67	<0.10	[U]	0.10	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 63	<0.11	[U]	0.11	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 61/70/74/76	1.72	M,J	0.11	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 66	0.81	M,J	0.11	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 55	<0.13	[U]	0.13	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 56	0.31	M,J,R	0.12	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 60	0.25	J,R	0.12	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 80	<0.098	[U]	0.098	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 79	<0.10	[U]	0.10	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 78	<0.13	[U]	0.13	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 81	<0.12	[U]	0.12	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 77	0.25	J,R	0.12	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 104	<0.060	[U]	0.060	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 96	<0.072	[U]	0.072	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 103	<0.17	[U]	0.17	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 94	<0.19	[U]	0.19	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 95	1.90	J,B	0.19	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 100/93/102/98	<0.17	[U]	0.17	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 88/91	0.23	J,R	0.19	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 84	0.42	J,R	0.19	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 89	<0.21	[U]	0.21	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 121	<0.13	[U]	0.13	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 92	0.44	[J]	0.20	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 113/90/101	2.31	[J]	0.15	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 83/99	1.46	M,J	0.18	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 112	<0.13	[U]	0.13	pg/g wwt	02-NOV-23	29-NOV-23	R5972336

* 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
L2751405-7 15867230619004							
Sampled By: LO/CM on 19-JUN-23							
Matrix: MOSS							
All PCB congeners by GC/HRMS							
PCB 109/119/86/97/125/87	1.28	M,J	0.12	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 117/116/85/110/115	3.55	M,J	0.17	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 82	<0.21	M,U	0.21	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 111	<0.13	[U]	0.13	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 120	<0.13	[U]	0.13	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 108/124	<0.14	[U]	0.14	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 107	0.16	M,J	0.12	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 123	<0.14	[U]	0.14	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 106	<0.14	[U]	0.14	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 118	2.16	[J]	0.13	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 122	<0.17	[U]	0.17	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 114	<0.15	[U]	0.15	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 105	1.14	[J]	0.14	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 127	<0.13	[U]	0.13	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 126	<0.14	[U]	0.14	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 155	<0.071	[U]	0.071	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 152	<0.098	[U]	0.098	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 150	<0.097	[U]	0.097	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 136	0.410	J,R	0.099	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 145	<0.10	[U]	0.10	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 148	<0.13	[U]	0.13	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 151/135	0.95	M,J,R	0.13	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 154	<0.11	[U]	0.11	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 144	<0.14	M,U	0.14	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 147/149	1.80	J,R	0.18	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 134/143	<0.21	[U]	0.21	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 139/140	<0.18	[U]	0.18	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 131	<0.21	[U]	0.21	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 142	<0.22	[U]	0.22	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 132	1.04	[J]	0.21	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 133	<0.20	[U]	0.20	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 165	<0.16	[U]	0.16	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 146	0.24	J,R	0.16	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 161	<0.15	[U]	0.15	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 168/153	2.93	[J]	0.15	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 141	0.50	J,R	0.18	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 130	0.30	[J]	0.21	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 137/164	0.37	M,J,R	0.16	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 138/163/129	3.44	[J]	0.18	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 160	<0.16	[U]	0.16	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 158	0.29	[J]	0.13	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 128/166	0.44	J,R	0.17	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 159	<0.13	[U]	0.13	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 162	<0.15	[U]	0.15	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 167	<0.15	[U]	0.15	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 156/157	0.39	M,J	0.20	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 169	<0.16	[U]	0.16	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 188	<0.12	[U]	0.12	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 179	0.42	J,R	0.17	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 184	<0.18	[U]	0.18	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 176	<0.18	[U]	0.18	pg/g wwt	02-NOV-23	29-NOV-23	R5972336

* 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
L2751405-7 15867230619004							
Sampled By: LO/CM on 19-JUN-23							
Matrix: MOSS							
All PCB congeners by GC/HRMS							
PCB 186	<0.19	[U]	0.19	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 178	<0.25	[U]	0.25	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 175	<0.23	M,U	0.23	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 187	1.60	[J]	0.23	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 182	<0.23	[U]	0.23	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 183	0.62	M,J	0.20	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 185	<0.27	[U]	0.27	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 174	1.19	M,J	0.25	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 177	0.45	J,R	0.25	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 181	<0.27	[U]	0.27	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 171/173	<0.26	[U]	0.26	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 172	<0.25	M,U	0.25	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 192	<0.23	[U]	0.23	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 180/193	2.10	J,R	0.21	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 191	<0.19	[U]	0.19	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 170	1.20	J,R	0.26	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 190	<0.18	M,U	0.18	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 189	<0.22	[U]	0.22	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 202	0.148	M,J	0.082	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 201	<0.080	[U]	0.080	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 204	<0.084	[U]	0.084	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 197	<0.092	[U]	0.092	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 200	<0.089	[U]	0.089	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 198/199	0.48	M,J,R	0.13	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 196	0.36	M,J	0.12	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 203	0.27	J,R	0.13	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 195	0.13	J,R	0.12	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 194	0.66	J,R	0.11	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 205	<0.11	[U]	0.11	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 208	<0.17	[U]	0.17	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 207	<0.21	[U]	0.21	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 206	<0.32	[U]	0.32	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
PCB 209	0.24	M,J,R	0.16	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
Surrogate: 13C12 PCB 1	21.0		5-145	%	02-NOV-23	29-NOV-23	R5972336
Surrogate: 13C12 PCB 3	26.0		5-145	%	02-NOV-23	29-NOV-23	R5972336
Surrogate: 13C12 PCB 4	25.0		5-145	%	02-NOV-23	29-NOV-23	R5972336
Surrogate: 13C12 PCB 15	30.0		5-145	%	02-NOV-23	29-NOV-23	R5972336
Surrogate: 13C12 PCB 19	31.0		5-145	%	02-NOV-23	29-NOV-23	R5972336
Surrogate: 13C12 PCB 37	34.0		5-145	%	02-NOV-23	29-NOV-23	R5972336
Surrogate: 13C12 PCB 54	28.0		5-145	%	02-NOV-23	29-NOV-23	R5972336
Surrogate: 13C12 PCB 81	35.0		10-145	%	02-NOV-23	29-NOV-23	R5972336
Surrogate: 13C12 PCB 77	36.0		10-145	%	02-NOV-23	29-NOV-23	R5972336
Surrogate: 13C12 PCB 104	30.0		10-145	%	02-NOV-23	29-NOV-23	R5972336
Surrogate: 13C12 PCB 123	37.0		10-145	%	02-NOV-23	29-NOV-23	R5972336
Surrogate: 13C12 PCB 118	36.0		10-145	%	02-NOV-23	29-NOV-23	R5972336
Surrogate: 13C12 PCB 114	36.0		10-145	%	02-NOV-23	29-NOV-23	R5972336
Surrogate: 13C12 PCB 105	36.0		10-145	%	02-NOV-23	29-NOV-23	R5972336
Surrogate: 13C12 PCB 126	37.0		10-145	%	02-NOV-23	29-NOV-23	R5972336
Surrogate: 13C12 PCB 155	33.0		10-145	%	02-NOV-23	29-NOV-23	R5972336
Surrogate: 13C12 PCB 167	39.0		10-145	%	02-NOV-23	29-NOV-23	R5972336
Surrogate: 13C12 PCB 156/157	36.0		10-145	%	02-NOV-23	29-NOV-23	R5972336

* 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
L2751405-7 15867230619004							
Sampled By: LO/CM on 19-JUN-23							
Matrix: MOSS							
All PCB congeners by GC/HRMS							
Surrogate: 13C12 PCB 169	39.0		10-145	%	02-NOV-23	29-NOV-23	R5972336
Surrogate: 13C12 PCB 188	38.0		10-145	%	02-NOV-23	29-NOV-23	R5972336
Surrogate: 13C12 PCB 189	15.0		10-145	%	02-NOV-23	29-NOV-23	R5972336
Surrogate: 13C12 PCB 202	38.0		10-145	%	02-NOV-23	29-NOV-23	R5972336
Surrogate: 13C12 PCB 205	38.0		10-145	%	02-NOV-23	29-NOV-23	R5972336
Surrogate: 13C12 PCB 208	41.0		10-145	%	02-NOV-23	29-NOV-23	R5972336
Surrogate: 13C12 PCB 206	39.0		10-145	%	02-NOV-23	29-NOV-23	R5972336
Surrogate: 13C12 PCB 209	14.0		10-145	%	02-NOV-23	29-NOV-23	R5972336
Surrogate: 13C12 PCB 28	38.0		5-145	%	02-NOV-23	29-NOV-23	R5972336
Surrogate: 13C12 PCB 111	45.0		10-145	%	02-NOV-23	29-NOV-23	R5972336
Surrogate: 13C12 PCB 178	46.0		10-145	%	02-NOV-23	29-NOV-23	R5972336
Total MonoCB	1.25	[J]	0.078	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
Total DiCB	17.1	[J]	0.31	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
Total TriCB	7.78	[J]	0.078	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
Total TetraCB	10.7	[J]	0.060	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
Total PentaCB	15.1	[J]	0.060	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
Total HexaCB	13.1	[J]	0.071	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
Total HeptaCB	7.58	[J]	0.12	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
Total OctaCB	2.05	[J]	0.080	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
Total NonaCB	<0.17	[U]	0.17	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
DecaCB	0.24	[J]	0.16	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
Total PCB	74.8	[J]	1.0	pg/g wwt	02-NOV-23	29-NOV-23	R5972336
Lower Bound PCB TEQ (WHO 2005)	0.000111			pg/g wwt	02-NOV-23	29-NOV-23	R5972336
Mid Point PCB TEQ (WHO 2005)	0.00956			pg/g wwt	02-NOV-23	29-NOV-23	R5972336
Upper Bound PCB TEQ (WHO 2005)	0.0190			pg/g wwt	02-NOV-23	29-NOV-23	R5972336
Dioxins and Furans HR 1613B							
2,3,7,8-TCDD	<0.066	[U]	0.066	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,7,8-PeCDD	<0.085	[U]	0.085	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,4,7,8-HxCDD	<0.10	[U]	0.10	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,6,7,8-HxCDD	<0.093	[U]	0.093	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,7,8,9-HxCDD	<0.096	[U]	0.096	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,4,6,7,8-HpCDD	0.39	M,J,R	0.16	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
OCDD	2.50	M,J,R	0.37	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
2,3,7,8-TCDF	<0.027	[U]	0.027	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,7,8-PeCDF	<0.077	[U]	0.077	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
2,3,4,7,8-PeCDF	<0.080	[U]	0.080	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,4,7,8-HxCDF	<0.028	[U]	0.028	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,6,7,8-HxCDF	<0.030	M,J,R	0.030	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
2,3,4,6,7,8-HxCDF	0.045	M,J,R	0.029	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,7,8,9-HxCDF	<0.044	[U]	0.044	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,4,6,7,8-HpCDF	<0.058	[U]	0.058	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,4,7,8,9-HpCDF	<0.097	[U]	0.097	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
OCDF	0.13	M,J,R	0.11	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total-TCDD	<0.066	[U]	0.066	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total TCDD # Homologues	0				02-NOV-23	12-NOV-23	R5972336
Total-PeCDD	<0.085	[U]	0.085	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total PeCDD # Homologues	0				02-NOV-23	12-NOV-23	R5972336
Total-HxCDD	<0.10	[U]	0.10	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total HxCDD # Homologues	0				02-NOV-23	12-NOV-23	R5972336
Total-HpCDD	0.60		0.16	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total HpCDD # Homologues	1				02-NOV-23	12-NOV-23	R5972336

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2751405-7 15867230619004							
Sampled By: LO/CM on 19-JUN-23							
Matrix: MOSS							
Dioxins and Furans HR 1613B							
Total-TCDF	0.038		0.027	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total TCDF # Homologues	1				02-NOV-23	12-NOV-23	R5972336
Total-PeCDF	<0.080	[U]	0.080	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total PeCDF # Homologues	0				02-NOV-23	12-NOV-23	R5972336
Total-HxCDF	<0.044	[U]	0.044	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total HxCDF # Homologues	0				02-NOV-23	12-NOV-23	R5972336
Total-HpCDF	<0.097	[U]	0.097	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total HpCDF # Homologues	0				02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-2,3,7,8-TCDD	64.0		25-164	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,7,8-PeCDD	66.0		25-181	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,4,7,8-HxCDD	83.0		32-141	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,6,7,8-HxCDD	84.0		28-130	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,4,6,7,8-HpCDD	71.0		23-140	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-OCDD	48.0		17-157	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-2,3,7,8-TCDF	67.0		24-169	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,7,8-PeCDF	75.0		21-192	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-2,3,4,7,8-PeCDF	66.0		21-178	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,4,7,8-HxCDF	95.0		26-152	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,6,7,8-HxCDF	91.0		26-123	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-2,3,4,6,7,8-HxCDF	92.0		29-147	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,7,8,9-HxCDF	84.0		28-136	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,4,6,7,8-HpCDF	75.0		28-143	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,4,7,8,9-HpCDF	61.0		26-138	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 37Cl4-2,3,7,8-TCDD (Cleanup)	69.0		31-197	%	02-NOV-23	12-NOV-23	R5972336
Lower Bound PCDD/F TEQ (WHO 2005)	0.00		0	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Mid Point PCDD/F TEQ (WHO 2005)	0.121		0	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Upper Bound PCDD/F TEQ (WHO 2005)	0.230		0	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
L2751405-8 15867230619104							
Sampled By: LO/CM on 19-JUN-23							
Matrix: LAB TEA							
Miscellaneous Parameters							
% Moisture	74.9		0.10	%	02-AUG-23	03-AUG-23	R5965039
% Moisture	75.0		0.50	%		12-JUL-23	R5963338
Mercury (Hg)-Total	0.0227		0.0050	mg/kg	18-JUL-23	25-JUL-23	R5964336
Silver (Ag)-Total	<0.0050		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Sulfur (S)-Total	860		100	mg/kg	18-JUL-23	19-JUL-23	R5964066
Titanium (Ti)-Total	1.55		0.25	mg/kg	18-JUL-23	19-JUL-23	R5964066
Total Nitrogen by Leco	1.04		0.050	%	21-JUL-23	21-JUL-23	R5964216
Metals in Tissue by CRC ICPMS (DRY)							
Aluminum (Al)-Total	66.0		2.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Antimony (Sb)-Total	<0.010		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Arsenic (As)-Total	0.029		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Barium (Ba)-Total	119		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Beryllium (Be)-Total	<0.010		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Bismuth (Bi)-Total	<0.010		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Boron (B)-Total	25.3		1.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cadmium (Cd)-Total	0.0123		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Calcium (Ca)-Total	6420		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cesium (Cs)-Total	0.0099		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Chromium (Cr)-Total	0.091		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2751405-8 15867230619104							
Sampled By: LO/CM on 19-JUN-23							
Matrix: LAB TEA							
Metals in Tissue by CRC ICPMS (DRY)							
Cobalt (Co)-Total	0.043		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Copper (Cu)-Total	2.38		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Iron (Fe)-Total	72.2		3.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Lead (Pb)-Total	0.057		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Lithium (Li)-Total	<0.50		0.50	mg/kg	18-JUL-23	19-JUL-23	R5964066
Magnesium (Mg)-Total	1440		2.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Manganese (Mn)-Total	1350		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Molybdenum (Mo)-Total	0.021		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Nickel (Ni)-Total	0.43		0.20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Phosphorus (P)-Total	886		10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Potassium (K)-Total	3480		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Rubidium (Rb)-Total	2.75		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Selenium (Se)-Total	<0.050		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Sodium (Na)-Total	<20		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Strontium (Sr)-Total	8.45		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Tellurium (Te)-Total	<0.020		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Thallium (Tl)-Total	0.0512		0.0020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Tin (Sn)-Total	<0.10		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Uranium (U)-Total	0.0027		0.0020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Vanadium (V)-Total	<0.10		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Zinc (Zn)-Total	25.3		0.50	mg/kg	18-JUL-23	19-JUL-23	R5964066
Zirconium (Zr)-Total	<0.20		0.20	mg/kg	18-JUL-23	19-JUL-23	R5964066
All PCB congeners by GC/HRMS							
PCB 1	9.7	M,[J],R	3.2	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 2	9.5	[J]	3.2	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 3	10.0	[J],R	2.9	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 4	<14	[U]	14	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 10	<5.8	[U]	5.8	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 9	<6.0	[U]	6.0	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 7	<5.8	[U]	5.8	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 6	<6.1	[U]	6.1	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 5	<6.0	[U]	6.0	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 8	52.2	[J],[B]	5.7	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 14	<14	[U]	14	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 11	215	[B]	14	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 13/12	15	M,[J],R	12	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 15	21.0	[J],R	9.7	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 19	<8.2	[U]	8.2	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 30/18	37.7	[J]	8.9	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 17	17	M,[J]	10	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 27	<7.4	M,[U]	7.4	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 24	<7.8	[U]	7.8	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 16	14	[J],R	12	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 32	13.0	[J],R	7.2	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 34	<9.2	[U]	9.2	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 23	<8.9	[U]	8.9	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 29/26	<8.4	M,[U]	8.4	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 25	<7.9	M,[U]	7.9	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 31	45.1	[J],[B]	8.4	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 28/20	62.0	[J]	8.3	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 21/33	29.0	[J],R	8.3	pg/g wwt	25-AUG-23	01-SEP-23	R5967736

* 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
L2751405-8 15867230619104							
Sampled By: LO/CM on 19-JUN-23							
Matrix: LAB TEA							
All PCB congeners by GC/HRMS							
PCB 22	20.0	M,[J],R	9.0	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 36	<7.6	[U]	7.6	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 39	<8.8	[U]	8.8	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 38	23.0	M,[J],R	8.8	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 35	<9.2	[U]	9.2	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 37	17.0	M,[J],R	7.0	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 54	<4.1	[U]	4.1	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 50/53	<8.6	[U]	8.6	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 45/51	15.8	M,[J],[B]	8.8	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 46	<9.6	[U]	9.6	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 52	53.0	[J],R	8.9	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 73	<5.9	[U]	5.9	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 43	<10	[U]	10	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 69/49	24.5	[J],[B]	7.0	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 48	<8.4	[U]	8.4	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 44/47/65	67.6	[J]	7.4	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 59/62/75	<6.3	[U]	6.3	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 42	10.0	M,[J],R	9.1	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 41/71/40	23.0	[J],R	8.5	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 64	18.2	[J]	6.0	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 72	<5.7	[U]	5.7	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 68	<5.9	[U]	5.9	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 57	<6.3	[U]	6.3	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 58	<6.1	[U]	6.1	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 67	<5.3	[U]	5.3	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 63	<6.2	[U]	6.2	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 61/70/74/76	46.0	M,[J],R	6.0	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 66	16.8	M,[J]	6.2	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 55	<6.3	[U]	6.3	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 56	16.0	M,[J],R	6.1	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 60	<6.4	[U]	6.4	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 80	<5.1	[U]	5.1	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 79	<5.4	[U]	5.4	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 78	<6.9	[U]	6.9	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 81	<5.9	[U]	5.9	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 77	<5.9	[U]	5.9	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 104	<2.1	[U]	2.1	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 96	<2.6	[U]	2.6	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 103	<7.9	[U]	7.9	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 94	<8.2	[U]	8.2	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 95	32.0	[J],R	8.9	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 100/93/102/98	<7.5	[U]	7.5	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 88/91	<8.2	[U]	8.2	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 84	13.0	M,[J],R	8.5	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 89	<10	[U]	10	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 121	<5.6	[U]	5.6	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 92	<9.2	M,[U]	9.2	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 113/90/101	40.0	[J],R	6.6	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 83/99	25.2	M,[J],[B]	8.4	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 112	<5.2	[U]	5.2	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 109/119/86/97/125/87	20.0	M,[J],R	5.4	pg/g wwt	25-AUG-23	01-SEP-23	R5967736

* 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
L2751405-8 15867230619104							
Sampled By: LO/CM on 19-JUN-23							
Matrix: LAB TEA							
All PCB congeners by GC/HRMS							
PCB 117/116/85/110/115	60.6	M,[J]	7.4	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 82	<9.8	[U]	9.8	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 111	<5.6	[U]	5.6	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 120	<5.9	[U]	5.9	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 108/124	<3.9	[U]	3.9	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 107	<3.2	[U]	3.2	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 123	<4.0	[U]	4.0	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 106	<4.5	[U]	4.5	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 118	34.7	[J]	3.7	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 122	<5.3	[U]	5.3	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 114	<4.2	[U]	4.2	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 105	8.5	M,[J],R	3.9	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 127	<3.9	[U]	3.9	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 126	<4.2	[U]	4.2	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 155	<2.5	[U]	2.5	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 152	<3.2	[U]	3.2	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 150	<3.1	[U]	3.1	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 136	4.2	M,[J],R	3.6	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 145	<3.3	[U]	3.3	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 148	<4.9	[U]	4.9	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 151/135	13.5	M,[J]	4.6	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 154	<3.6	[U]	3.6	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 144	<4.8	[U]	4.8	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 147/149	16.0	M,[J],R	3.4	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 134/143	<4.3	[U]	4.3	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 139/140	<3.5	[U]	3.5	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 131	<4.4	[U]	4.4	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 142	<4.7	[U]	4.7	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 132	9.1	M,[J],R	4.2	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 133	<4.3	[U]	4.3	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 165	<3.1	[U]	3.1	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 146	4.9	[J]	3.3	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 161	<3.0	[U]	3.0	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 168/153	25.0	[J],R	3.0	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 141	8.9	[J]	3.7	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 130	<4.4	[U]	4.4	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 137/164	<3.2	[U]	3.2	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 138/163/129	39.3	M,[J],[B]	3.6	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 160	<3.1	[U]	3.1	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 158	2.6	M,[J],R	2.5	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 128/166	<3.4	[U]	3.4	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 159	<2.7	[U]	2.7	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 162	<2.8	[U]	2.8	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 167	<2.7	[U]	2.7	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 156/157	<3.6	[U]	3.6	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 169	<3.1	[U]	3.1	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 188	<2.4	[U]	2.4	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 179	<2.7	[U]	2.7	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 184	<2.5	[U]	2.5	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 176	<2.7	[U]	2.7	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 186	<2.7	[U]	2.7	pg/g wwt	25-AUG-23	01-SEP-23	R5967736

* 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
L2751405-8 15867230619104							
Sampled By: LO/CM on 19-JUN-23							
Matrix: LAB TEA							
All PCB congeners by GC/HRMS							
PCB 178	<3.9	[U]	3.9	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 175	<3.6	[U]	3.6	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 187	7.5	[J],R	3.3	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 182	<3.4	[U]	3.4	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 183	4.0	M,[J],R	3.3	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 185	9.3	[J],R	3.5	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 174	<3.4	[U]	3.4	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 177	<3.7	[U]	3.7	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 181	<3.5	[U]	3.5	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 171/173	<3.7	[U]	3.7	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 172	<3.7	[U]	3.7	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 192	<3.0	[U]	3.0	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 180/193	12.0	M,[J],R	3.0	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 191	<2.8	[U]	2.8	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 170	<3.9	[U]	3.9	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 190	<2.5	[U]	2.5	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 189	<2.6	[U]	2.6	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 202	<2.6	[U]	2.6	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 201	<2.5	[U]	2.5	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 204	<2.6	[U]	2.6	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 197	<2.6	[U]	2.6	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 200	<2.9	[U]	2.9	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 198/199	9.5	M,[J]	3.9	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 196	<3.7	[U]	3.7	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 203	<3.6	[U]	3.6	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 195	<4.2	[U]	4.2	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 194	6.9	[J],R	4.0	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 205	<3.3	[U]	3.3	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 208	<10	[U]	10	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 207	<11	[U]	11	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 206	<18	[U]	18	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
PCB 209	<74	[U]	74	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 1	29.0		5-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 3	36.0		5-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 4	30.0		5-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 15	34.0		5-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 19	27.0		5-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 37	40.0		5-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 54	26.0		5-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 81	38.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 77	40.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 104	32.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 123	39.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 118	39.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 114	37.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 105	40.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 126	38.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 155	34.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 167	39.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 156/157	36.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 169	37.0		10-145	%	25-AUG-23	01-SEP-23	R5967736

* 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
L2751405-8 15867230619104							
Sampled By: LO/CM on 19-JUN-23							
Matrix: LAB TEA							
All PCB congeners by GC/HRMS							
Surrogate: 13C12 PCB 188	36.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 189	35.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 202	35.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 205	40.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 208	39.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 206	38.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 209	38.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 28	61.0		5-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 111	66.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Surrogate: 13C12 PCB 178	63.0		10-145	%	25-AUG-23	01-SEP-23	R5967736
Total MonoCB	29.2	[J]	2.9	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
Total DiCB	303	[J]	5.7	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
Total TriCB	278	[J]	7.0	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
Total TetraCB	291	[J]	4.1	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
Total PentaCB	234	[J]	2.1	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
Total HexaCB	124	[J]	2.5	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
Total HeptaCB	32.8	[J]	2.4	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
Total OctaCB	16.4	[J]	2.5	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
Total NonaCB	<10	[U]	10	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
DecaCB	<74	[U]	74	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
Total PCB	1310	[J]	1.0	pg/g wwt	25-AUG-23	01-SEP-23	R5967736
Lower Bound PCB TEQ (WHO 2005)	0.00104			pg/g wwt	25-AUG-23	01-SEP-23	R5967736
Mid Point PCB TEQ (WHO 2005)	0.259			pg/g wwt	25-AUG-23	01-SEP-23	R5967736
Upper Bound PCB TEQ (WHO 2005)	0.517			pg/g wwt	25-AUG-23	01-SEP-23	R5967736
Dioxins and Furans HR 1613B							
2,3,7,8-TCDD	<5.8	[U]	5.8	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
1,2,3,7,8-PeCDD	<6.9	[U]	6.9	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
1,2,3,4,7,8-HxCDD	<6.4	[U]	6.4	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
1,2,3,6,7,8-HxCDD	<6.4	[U]	6.4	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
1,2,3,7,8,9-HxCDD	<6.3	[U]	6.3	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
1,2,3,4,6,7,8-HpCDD	<6.2	[U]	6.2	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
OCDD	11.0	M,J,R	8.4	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
2,3,7,8-TCDF	<4.7	[U]	4.7	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
1,2,3,7,8-PeCDF	<3.2	[U]	3.2	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
2,3,4,7,8-PeCDF	<3.3	[U]	3.3	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
1,2,3,4,7,8-HxCDF	<3.0	[U]	3.0	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
1,2,3,6,7,8-HxCDF	<3.1	[U]	3.1	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
2,3,4,6,7,8-HxCDF	<3.0	[U]	3.0	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
1,2,3,7,8,9-HxCDF	<4.0	[U]	4.0	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
1,2,3,4,6,7,8-HpCDF	<3.0	[U]	3.0	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
1,2,3,4,7,8,9-HpCDF	<3.9	[U]	3.9	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
OCDF	<8.7	[U]	8.7	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
Total-TCDD	<5.8	[U]	5.8	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
Total TCDD # Homologues	0				02-AUG-23	19-AUG-23	R5967776
Total-PeCDD	<6.9	[U]	6.9	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
Total PeCDD # Homologues	0				02-AUG-23	19-AUG-23	R5967776
Total-HxCDD	<6.4	[U]	6.4	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
Total HxCDD # Homologues	0				02-AUG-23	19-AUG-23	R5967776
Total-HpCDD	<6.2	[U]	6.2	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
Total HpCDD # Homologues	0				02-AUG-23	19-AUG-23	R5967776
Total-TCDF	<4.7	[U]	4.7	pg/g wwt	02-AUG-23	19-AUG-23	R5967776

* 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
L2751405-8 15867230619104							
Sampled By: LO/CM on 19-JUN-23							
Matrix: LAB TEA							
Dioxins and Furans HR 1613B							
Total TCDF # Homologues	0				02-AUG-23	19-AUG-23	R5967776
Total-PeCDF	<3.3	[U]	3.3	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
Total PeCDF # Homologues	0				02-AUG-23	19-AUG-23	R5967776
Total-HxCDF	<4.0	[U]	4.0	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
Total HxCDF # Homologues	0				02-AUG-23	19-AUG-23	R5967776
Total-HpCDF	<3.9	[U]	3.9	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
Total HpCDF # Homologues	0				02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-2,3,7,8-TCDD	35.0		25-164	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-1,2,3,7,8-PeCDD	38.0		25-181	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-1,2,3,4,7,8-HxCDD	39.0		32-141	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-1,2,3,6,7,8-HxCDD	37.0		28-130	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-1,2,3,4,6,7,8-HpCDD	45.0		23-140	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-OCDD	43.0		17-157	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-2,3,7,8-TCDF	34.0		24-169	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-1,2,3,7,8-PeCDF	43.0		21-192	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-2,3,4,7,8-PeCDF	39.0		21-178	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-1,2,3,4,7,8-HxCDF	43.0		26-152	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-1,2,3,6,7,8-HxCDF	43.0		26-123	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-2,3,4,6,7,8-HxCDF	44.0		29-147	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-1,2,3,7,8,9-HxCDF	42.0		28-136	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-1,2,3,4,6,7,8-HpCDF	44.0		28-143	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-1,2,3,4,7,8,9-HpCDF	46.0		26-138	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 37Cl4-2,3,7,8-TCDD (Cleanup)	63.0		31-197	%	02-AUG-23	19-AUG-23	R5967776
Lower Bound PCDD/F TEQ (WHO 2005)	0.00		0	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
Mid Point PCDD/F TEQ (WHO 2005)	8.81		0	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
Upper Bound PCDD/F TEQ (WHO 2005)	17.6		0	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
L2751405-9 15867230620005							
Sampled By: LO/CM on 20-JUN-23							
Matrix: MOSS							
All PCB congeners by GC/HRMS							
PCB 1	1.10	M,J,R	0.32	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 2	<0.35	[U]	0.35	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 3	0.83	M,J,R	0.28	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 4	3.59	[J]	0.73	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 10	<0.34	[U]	0.34	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 9	0.74	M,J,R	0.32	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 7	<0.33	[U]	0.33	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 6	1.71	[J]	0.34	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 5	<0.36	[U]	0.36	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 8	8.77	M	0.31	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 14	<0.81	[U]	0.81	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 11	13.7	M,B	0.78	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 13/12	1.50	M,J,R	0.74	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 15	8.46	M	0.68	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 19	0.92	[J]	0.19	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 30/18	6.87		0.26	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 17	3.64	[J]	0.30	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 27	0.61	[J]	0.22	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 24	<0.24	[U]	0.24	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 16	2.68	[J]	0.33	pg/g wwt	02-NOV-23	17-NOV-23	R5972336

* 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
L2751405-9 15867230620005							
Sampled By: LO/CM on 20-JUN-23							
Matrix: MOSS							
All PCB congeners by GC/HRMS							
PCB 32	2.39	[J]	0.21	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 34	<3.3	[U]	3.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 23	<3.2	[U]	3.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 29/26	<3.1	M,U	3.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 25	<2.9	[U]	2.9	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 31	16.0	J,R	3.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 28/20	25.2	M,J	3.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 21/33	8.0	M,J	3.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 22	5.0	M,J	3.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 36	<2.8	[U]	2.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 39	<3.2	[U]	3.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 38	<3.1	[U]	3.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 35	<3.4	[U]	3.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 37	12.0	M,J,R	4.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 54	<1.2	[U]	1.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 50/53	<2.6	[U]	2.6	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 45/51	<2.7	[U]	2.7	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 46	<2.9	[U]	2.9	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 52	34.1	M,J	2.7	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 73	<1.8	[U]	1.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 43	<3.3	[U]	3.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 69/49	12.0	J,R	2.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 48	<2.5	[U]	2.5	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 44/47/65	25.4	M,J	2.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 59/62/75	<1.9	[U]	1.9	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 42	3.4	M,J,R	2.7	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 41/71/40	<2.5	[U]	2.5	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 64	10.0	J,R	1.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 72	<4.0	[U]	4.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 68	<3.8	[U]	3.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 57	<4.0	[U]	4.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 58	<4.0	[U]	4.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 67	<3.4	[U]	3.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 63	<3.9	[U]	3.9	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 61/70/74/76	194	M	4.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 66	77.3	M	3.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 55	<4.1	[U]	4.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 56	24.0	J,R	4.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 60	17.0	M,J,R	4.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 80	<3.3	[U]	3.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 79	<3.5	[U]	3.5	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 78	<4.3	[U]	4.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 81	0.68	M,J,R	0.48	pg/g wwt	02-NOV-23	09-DEC-23	R5972336
PCB 77	27.9	M	0.47	pg/g wwt	02-NOV-23	09-DEC-23	R5972336
PCB 104	<1.1	[U]	1.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 96	<1.7	[U]	1.7	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 103	<4.1	[U]	4.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 94	<4.3	[U]	4.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 95	93.7	M	4.6	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 100/93/102/98	4.7	M,J,R	3.9	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 88/91	17.3	[J]	4.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336

* 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
L2751405-9 15867230620005							
Sampled By: LO/CM on 20-JUN-23							
Matrix: MOSS							
All PCB congeners by GC/HRMS							
PCB 84	22.0	J,R	4.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 89	<5.0	[U]	5.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 121	<2.9	[U]	2.9	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 92	32.0	M,J,R	4.7	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 113/90/101	199	M	3.5	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 83/99	125		4.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 112	<2.8	[U]	2.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 109/119/86/97/125/87	120	M	3.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 117/116/85/110/115	307	M	3.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 82	27.2	[J]	4.7	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 111	<2.9	[U]	2.9	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 120	<2.8	[U]	2.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 108/124	15.5	[J]	3.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 107	20.3	M,J	2.6	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 123	4.5	M,J,R	3.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 106	<3.2	[U]	3.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 118	406	M	3.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 122	7.3	[J]	4.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 114	11.0	J,R	3.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 105	207		3.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 127	<2.8	[U]	2.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 126	5.45	M	0.24	pg/g wwt	02-NOV-23	09-DEC-23	R5972336
PCB 155	<0.64	[U]	0.64	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 152	<1.1	[U]	1.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 150	<0.90	[U]	0.90	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 136	33.7	M,J	1.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 145	<0.97	[U]	0.97	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 148	<1.3	[U]	1.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 151/135	113	M	1.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 154	1.54	M,J	0.99	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 144	18.5	[J]	1.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 147/149	241	M	2.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 134/143	9.8	M,J,R	2.9	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 139/140	6.5	[J]	2.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 131	4.4	J,R	2.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 142	<2.9	[U]	2.9	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 132	107		2.7	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 133	5.0	M,J	2.7	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 165	<2.0	[U]	2.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 146	49.4		2.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 161	<1.9	[U]	1.9	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 168/153	373		1.9	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 141	73.0	R	2.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 130	21.0	J,R	2.7	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 137/164	47.2	M	2.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 138/163/129	547		2.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 160	<1.7	[U]	1.7	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 158	51.1		1.6	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 128/166	76.3		2.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 159	4.7	J,R	1.7	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 162	<1.8	M,U	1.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336

* 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
L2751405-9 15867230620005							
Sampled By: LO/CM on 20-JUN-23							
Matrix: MOSS							
All PCB congeners by GC/HRMS							
PCB 167	29.2	[J]	2.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 156/157	73.4	[J]	2.5	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 169	0.28	M,J,R	0.11	pg/g wwt	02-NOV-23	09-DEC-23	R5972336
PCB 188	<1.0	[U]	1.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 179	33.0	J,R	1.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 184	<0.95	M,U	0.95	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 176	14.1	[J]	1.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 186	<1.0	[U]	1.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 178	25.5	[J]	1.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 175	5.8	J,R	1.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 187	156		1.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 182	<1.3	[U]	1.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 183	81.5	M	1.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 185	8.9	M,J,R	1.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 174	129	M	1.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 177	74.3		1.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 181	<1.4	[U]	1.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 171/173	42.3		1.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 172	26.4	[J]	1.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 192	<1.1	[U]	1.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 180/193	347		1.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 191	6.6	M,J	1.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 170	146	M	1.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 190	27.5	M,J	0.88	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 189	6.9	M,J,R	1.5	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 202	7.99	[J]	0.92	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 201	6.46	M,J	0.96	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 204	<0.99	[U]	0.99	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 197	1.3	J,R	1.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 200	7.2	[J]	1.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 198/199	72.6		1.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 196	30.0	J,R	1.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 203	41.0		1.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 195	18.0	M,J,R	1.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 194	72.0	M	1.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 205	3.6	M,J,R	1.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 208	<3.6	[U]	3.6	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 207	<3.7	[U]	3.7	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 206	19.4	[J]	6.7	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 209	1.80	J,R	0.91	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 1	23.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 3	29.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 4	24.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 15	30.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 19	34.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 37	27.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 54	27.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 81	30.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 77	28.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 104	33.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 123	34.0	M,R	10-145	%	02-NOV-23	17-NOV-23	R5972336

* 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
L2751405-9 15867230620005							
Sampled By: LO/CM on 20-JUN-23							
Matrix: MOSS							
All PCB congeners by GC/HRMS							
Surrogate: 13C12 PCB 118	34.0	M	10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 114	32.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 105	32.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 126	30.0	M	10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 155	33.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 167	39.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 156/157	41.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 169	41.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 188	34.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 189	39.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 202	40.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 205	42.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 208	39.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 206	43.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 209	34.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 28	33.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 111	43.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 178	41.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Total MonoCB	1.93	[J]	0.28	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Total DiCB	38.5	[J]	0.31	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Total TriCB	83.4	[J]	0.19	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Total TetraCB	426	[J]	0.47	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Total PentaCB	1620	[J]	0.24	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Total HexaCB	1890	[J]	0.11	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Total HeptaCB	1130	[J]	0.88	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Total OctaCB	260	[J]	0.92	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Total NonaCB	19.4	[J]	3.6	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
DecaCB	1.80	[J]	0.91	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Total PCB	5470	[J]	1.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Lower Bound PCB TEQ (WHO 2005)	0.569			pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Mid Point PCB TEQ (WHO 2005)	0.579			pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Upper Bound PCB TEQ (WHO 2005)	0.579			pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Dioxins and Furans HR 1613B							
2,3,7,8-TCDD	<0.051	[U]	0.051	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,7,8-PeCDD	<0.085	[U]	0.085	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,4,7,8-HxCDD	<0.086	[U]	0.086	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,6,7,8-HxCDD	0.190	M,J,R	0.092	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,7,8,9-HxCDD	0.137	[J]	0.087	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,4,6,7,8-HpCDD	2.43	[J]	0.10	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
OCDD	13.7		0.086	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
2,3,7,8-TCDF	0.251	M,J	0.036	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,7,8-PeCDF	<0.055	[U]	0.055	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
2,3,4,7,8-PeCDF	0.190	J,R	0.053	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,4,7,8-HxCDF	0.180	J,R	0.036	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,6,7,8-HxCDF	0.189	[J]	0.037	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
2,3,4,6,7,8-HxCDF	0.265	M,J	0.039	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,7,8,9-HxCDF	<0.057	[U]	0.057	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,4,6,7,8-HpCDF	1.00	J,R	0.068	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,4,7,8,9-HpCDF	<0.11	M,U	0.11	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
OCDF	1.10	J,R	0.17	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total-TCDD	<0.051	[U]	0.051	pg/g wwt	02-NOV-23	12-NOV-23	R5972336

* 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
L2751405-9 15867230620005							
Sampled By: LO/CM on 20-JUN-23							
Matrix: MOSS							
Dioxins and Furans HR 1613B							
Total TCDD # Homologues	0				02-NOV-23	12-NOV-23	R5972336
Total-PeCDD	0.177		0.085	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total PeCDD # Homologues	1				02-NOV-23	12-NOV-23	R5972336
Total-HxCDD	1.86		0.092	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total HxCDD # Homologues	4				02-NOV-23	12-NOV-23	R5972336
Total-HpCDD	4.82		0.10	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total HpCDD # Homologues	2				02-NOV-23	12-NOV-23	R5972336
Total-TCDF	0.557		0.036	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total TCDF # Homologues	3				02-NOV-23	12-NOV-23	R5972336
Total-PeCDF	0.244		0.055	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total PeCDF # Homologues	1				02-NOV-23	12-NOV-23	R5972336
Total-HxCDF	0.454		0.057	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total HxCDF # Homologues	2				02-NOV-23	12-NOV-23	R5972336
Total-HpCDF	<0.11	[U]	0.11	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total HpCDF # Homologues	0				02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-2,3,7,8-TCDD	67.0		25-164	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,7,8-PeCDD	71.0		25-181	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,4,7,8-HxCDD	99.0		32-141	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,6,7,8-HxCDD	97.0		28-130	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,4,6,7,8-HpCDD	86.0		23-140	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-OCDD	63.0		17-157	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-2,3,7,8-TCDF	65.0		24-169	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,7,8-PeCDF	76.0		21-192	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-2,3,4,7,8-PeCDF	72.0		21-178	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,4,7,8-HxCDF	108.0		26-152	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,6,7,8-HxCDF	102.0		26-123	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-2,3,4,6,7,8-HxCDF	98.0		29-147	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,7,8,9-HxCDF	90.0		28-136	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,4,6,7,8-HpCDF	84.0		28-143	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,4,7,8,9-HpCDF	73.0		26-138	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 37Cl4-2,3,7,8-TCDD (Cleanup)	68.0		31-197	%	02-NOV-23	12-NOV-23	R5972336
Lower Bound PCDD/F TEQ (WHO 2005)	0.113		0	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Mid Point PCDD/F TEQ (WHO 2005)	0.293		0	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Upper Bound PCDD/F TEQ (WHO 2005)	0.370		0	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
L2751405-10 15867230620105							
Sampled By: LO/CM on 20-JUN-23							
Matrix: LAB TEA							
Miscellaneous Parameters							
% Moisture	70.5		0.10	%	02-AUG-23	03-AUG-23	R5965039
% Moisture	75.1		0.50	%		12-JUL-23	R5963338
Mercury (Hg)-Total	0.0182		0.0050	mg/kg	18-JUL-23	25-JUL-23	R5964336
Silver (Ag)-Total	<0.0050		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Sulfur (S)-Total	1210		100	mg/kg	18-JUL-23	19-JUL-23	R5964066
Titanium (Ti)-Total	1.53		0.25	mg/kg	18-JUL-23	19-JUL-23	R5964066
Total Nitrogen by Leco	1.58		0.050	%	21-JUL-23	21-JUL-23	R5964216
Metals in Tissue by CRC ICPMS (DRY)							
Aluminum (Al)-Total	103		2.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Antimony (Sb)-Total	<0.010		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Arsenic (As)-Total	<0.020		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Barium (Ba)-Total	96.4		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066

* 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
L2751405-10 15867230620105							
Sampled By: LO/CM on 20-JUN-23							
Matrix: LAB TEA							
Metals in Tissue by CRC ICPMS (DRY)							
Beryllium (Be)-Total	<0.010		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Bismuth (Bi)-Total	<0.010		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Boron (B)-Total	19.4		1.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cadmium (Cd)-Total	0.0123		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Calcium (Ca)-Total	7990		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cesium (Cs)-Total	0.0671		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Chromium (Cr)-Total	0.085		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cobalt (Co)-Total	0.094		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Copper (Cu)-Total	3.58		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Iron (Fe)-Total	78.5		3.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Lead (Pb)-Total	0.072		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Lithium (Li)-Total	<0.50		0.50	mg/kg	18-JUL-23	19-JUL-23	R5964066
Magnesium (Mg)-Total	1670		2.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Manganese (Mn)-Total	693		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Molybdenum (Mo)-Total	<0.020		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Nickel (Ni)-Total	1.31		0.20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Phosphorus (P)-Total	1220		10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Potassium (K)-Total	3750		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Rubidium (Rb)-Total	13.8		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Selenium (Se)-Total	<0.050		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Sodium (Na)-Total	<20		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Strontium (Sr)-Total	9.03		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Tellurium (Te)-Total	<0.020		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Thallium (Tl)-Total	0.0035		0.0020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Tin (Sn)-Total	<0.10		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Uranium (U)-Total	0.0021		0.0020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Vanadium (V)-Total	<0.10		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Zinc (Zn)-Total	25.4		0.50	mg/kg	18-JUL-23	19-JUL-23	R5964066
Zirconium (Zr)-Total	<0.20		0.20	mg/kg	18-JUL-23	19-JUL-23	R5964066
All PCB congeners by GC/HRMS							
PCB 1	15.0	[J],R	4.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 2	17.3	[J]	3.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 3	28.5	M,[J]	3.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 4	<23	[U]	23	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 10	<10	[U]	10	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 9	<10	[U]	10	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 7	<10	[U]	10	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 6	<11	[U]	11	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 5	<9.9	[U]	9.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 8	52	M,[J],R	10	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 14	<25	[U]	25	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 11	200	R	25	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 13/12	<21	[U]	21	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 15	45	[J],R	17	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 19	16	M,[J],R	12	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 30/18	42	[J]	10	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 17	18	[J],R	11	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 27	<8.1	[U]	8.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 24	<9.1	[U]	9.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 16	17	[J],R	12	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 32	16.3	M,[J],[B]	8.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2751405-10 15867230620105							
Sampled By: LO/CM on 20-JUN-23							
Matrix: LAB TEA							
All PCB congeners by GC/HRMS							
PCB 34	<12	[U]	12	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 23	<11	[U]	11	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 29/26	19	M,[J]	11	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 25	<10	[U]	10	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 31	69	[J],[B]	11	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 28/20	92	M	10	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 21/33	44	M,[J],R	11	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 22	19	M,[J],R	11	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 36	<9.9	[U]	9.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 39	<11	[U]	11	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 38	17	[J],R	11	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 35	<12	[U]	12	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 37	43.6	[J]	9.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 54	<5.1	[U]	5.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 50/53	13	[J],R	10	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 45/51	14	M,[J],R	10	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 46	<11	M,[U]	11	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 52	110	M,R	10	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 73	<6.8	[U]	6.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 43	<12	[U]	12	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 69/49	34.0	[J],R	8.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 48	<9.9	M,[U]	9.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 44/47/65	75.0	M,[J],R	8.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 59/62/75	12.0	[J],R	7.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 42	<11	[U]	11	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 41/71/40	37	[J],R	10	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 64	27.1	[J]	7.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 72	<9.6	[U]	9.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 68	<9.7	M,[U]	9.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 57	<11	[U]	11	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 58	<10	[U]	10	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 67	<8.9	[U]	8.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 63	<11	[U]	11	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 61/70/74/76	173	M,[B]	10	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 66	92		10	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 55	<11	[U]	11	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 56	31	[J]	10	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 60	31	[J],R	11	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 80	<8.6	[U]	8.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 79	<9.1	[U]	9.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 78	<12	[U]	12	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 81	<9.9	[U]	9.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 77	53	[J]	10	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 104	<4.7	[U]	4.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 96	<5.8	[U]	5.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 103	<12	[U]	12	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 94	<12	[U]	12	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 95	210	M,R	14	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 100/93/102/98	15	M,[J],R	11	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 88/91	20	M,[J],R	12	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 84	36	M,[J],R	13	pg/g wwt	25-AUG-23	02-SEP-23	R5967736

* 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
L2751405-10 15867230620105							
Sampled By: LO/CM on 20-JUN-23							
Matrix: LAB TEA							
All PCB congeners by GC/HRMS							
PCB 89	<16	[U]	16	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 121	<8.4	[U]	8.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 92	58	[J],R	14	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 113/90/101	302		10	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 83/99	288		12	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 112	<8.3	[U]	8.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 109/119/86/97/125/87	153	M	8.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 117/116/85/110/115	436	M	11	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 82	41	[J],R	15	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 111	<8.6	[U]	8.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 120	<9.0	[U]	9.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 108/124	19	M,[J],R	11	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 107	26.3	[J]	8.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 123	20	[J]	10	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 106	<13	[U]	13	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 118	454	M	9.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 122	<15	[U]	15	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 114	20	[J]	11	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 105	180	R	10	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 127	<10	[U]	10	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 126	<11	[U]	11	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 155	7.4	M,[J]	4.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 152	<5.4	[U]	5.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 150	<4.8	[U]	4.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 136	48.7	[J]	6.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 145	<5.6	[U]	5.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 148	<8.0	[U]	8.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 151/135	200	M,R	7.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 154	14.0	[J],R	6.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 144	29.0	[J],R	8.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 147/149	311	M	9.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 134/143	36	M,[J],R	12	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 139/140	16.0	[J],R	9.5	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 131	<12	[U]	12	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 142	<13	[U]	13	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 132	103		11	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 133	24	[J],R	12	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 165	<8.1	[U]	8.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 146	105		8.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 161	<8.1	[U]	8.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 168/153	695		8.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 141	70	[J],R	10	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 130	42	[J]	12	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 137/164	67.4	M,[J]	8.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 138/163/129	715	M	9.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 160	<8.4	[U]	8.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 158	50.0	[J],R	6.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 128/166	94.0	R	9.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 159	<7.4	[U]	7.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 162	<7.8	[U]	7.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 167	24.4	[J]	7.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2751405-10 15867230620105							
Sampled By: LO/CM on 20-JUN-23							
Matrix: LAB TEA							
All PCB congeners by GC/HRMS							
PCB 156/157	37	[J],R	10	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 169	9.6	M,[J],R	8.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 188	9.6	[J],R	6.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 179	44.8	M,[J]	6.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 184	<6.2	[U]	6.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 176	12.0	M,[J],R	6.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 186	<6.8	[U]	6.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 178	53.0	[J]	9.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 175	12.0	[J],R	9.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 187	233		8.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 182	<8.4	[U]	8.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 183	74.0	M,[J],R	8.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 185	11.0	M,[J],R	9.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 174	94.0	M,R	8.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 177	85.2		9.5	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 181	<9.2	[U]	9.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 171/173	45.0	[J],R	9.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 172	33.0	[J]	9.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 192	<7.7	M,[U]	7.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 180/193	295		7.5	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 191	<7.0	[U]	7.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 170	95	R	10	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 190	19.0	[J],R	6.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 189	<5.0	[U]	5.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 202	21.5	M,[J]	5.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 201	<49	[U]	49	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 204	<5.8	[U]	5.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 197	12.3	M,[J]	5.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 200	19.6	[J]	6.5	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 198/199	48.0	[J],R	8.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 196	19.0	[J],R	8.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 203	32.4	[J]	7.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 195	<89	[U]	89	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 194	27.0	[J],R	7.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 205	6.0	[J],R	5.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 208	22	M,[J],R	16	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 207	<18	[U]	18	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 206	<27	[U]	27	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 209	<80	[U]	80	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 1	23.0		5-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 3	29.0		5-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 4	24.0		5-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 15	27.0		5-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 19	21.0		5-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 37	31.0		5-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 54	21.0		5-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 81	31.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 77	30.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 104	24.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 123	31.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 118	30.0		10-145	%	25-AUG-23	02-SEP-23	R5967736

* 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
L2751405-10 15867230620105							
Sampled By: LO/CM on 20-JUN-23							
Matrix: LAB TEA							
All PCB congeners by GC/HRMS							
Surrogate: 13C12 PCB 114	29.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 105	32.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 126	31.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 155	25.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 167	31.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 156/157	29.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 169	30.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 188	28.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 189	29.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 202	26.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 205	29.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 208	27.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 206	28.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 209	23.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 28	45.0		5-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 111	48.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 178	46.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Total MonoCB	60.8	[J]	3.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Total DiCB	297	[J]	9.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Total TriCB	413	[J]	8.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Total TetraCB	701	[J]	5.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Total PentaCB	2280	[J]	4.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Total HexaCB	2700	[J]	4.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Total HeptaCB	1120	[J]	5.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Total OctaCB	186	[J]	5.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Total NonaCB	22	[J]	16	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
DecaCB	<80	[U]	80	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Total PCB	7770	[J]	1.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Lower Bound PCB TEQ (WHO 2005)	0.0208			pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Mid Point PCB TEQ (WHO 2005)	0.867			pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Upper Bound PCB TEQ (WHO 2005)	1.42			pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Dioxins and Furans HR 1613B							
2,3,7,8-TCDD	<6.6	[U]	6.6	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
1,2,3,7,8-PeCDD	<6.9	[U]	6.9	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
1,2,3,4,7,8-HxCDD	<4.8	[U]	4.8	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
1,2,3,6,7,8-HxCDD	<4.9	[U]	4.9	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
1,2,3,7,8,9-HxCDD	<4.8	[U]	4.8	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
1,2,3,4,6,7,8-HpCDD	<4.9	[U]	4.9	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
OCDD	14.0	M,J,R	9.5	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
2,3,7,8-TCDF	<4.4	[U]	4.4	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
1,2,3,7,8-PeCDF	<3.8	[U]	3.8	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
2,3,4,7,8-PeCDF	<3.6	[U]	3.6	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
1,2,3,4,7,8-HxCDF	<5.1	[U]	5.1	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
1,2,3,6,7,8-HxCDF	<5.1	[U]	5.1	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
2,3,4,6,7,8-HxCDF	<4.6	[U]	4.6	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
1,2,3,7,8,9-HxCDF	<6.7	[U]	6.7	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
1,2,3,4,6,7,8-HpCDF	<4.6	[U]	4.6	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
1,2,3,4,7,8,9-HpCDF	<5.8	[U]	5.8	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
OCDF	<8.4	[U]	8.4	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
Total-TCDD	<6.6	[U]	6.6	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
Total TCDD # Homologues	0				02-AUG-23	19-AUG-23	R5967776

* 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
L2751405-10 15867230620105							
Sampled By: LO/CM on 20-JUN-23							
Matrix: LAB TEA							
Dioxins and Furans HR 1613B							
Total-PeCDD	<6.9	[U]	6.9	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
Total PeCDD # Homologues	0				02-AUG-23	19-AUG-23	R5967776
Total-HxCDD	<4.9	[U]	4.9	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
Total HxCDD # Homologues	0				02-AUG-23	19-AUG-23	R5967776
Total-HpCDD	<4.9	[U]	4.9	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
Total HpCDD # Homologues	0				02-AUG-23	19-AUG-23	R5967776
Total-TCDF	<4.4	[U]	4.4	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
Total TCDF # Homologues	0				02-AUG-23	19-AUG-23	R5967776
Total-PeCDF	<3.8	[U]	3.8	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
Total PeCDF # Homologues	0				02-AUG-23	19-AUG-23	R5967776
Total-HxCDF	<6.7	[U]	6.7	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
Total HxCDF # Homologues	0				02-AUG-23	19-AUG-23	R5967776
Total-HpCDF	<5.8	[U]	5.8	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
Total HpCDF # Homologues	0				02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-2,3,7,8-TCDD	29.0		25-164	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-1,2,3,7,8-PeCDD	32.0		25-181	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-1,2,3,4,7,8-HxCDD	31.0	G	32-141	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-1,2,3,6,7,8-HxCDD	29.0		28-130	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-1,2,3,4,6,7,8-HpCDD	37.0		23-140	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-OCDD	33.0		17-157	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-2,3,7,8-TCDF	30.0		24-169	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-1,2,3,7,8-PeCDF	36.0		21-192	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-2,3,4,7,8-PeCDF	34.0		21-178	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-1,2,3,4,7,8-HxCDF	34.0		26-152	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-1,2,3,6,7,8-HxCDF	33.0		26-123	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-2,3,4,6,7,8-HxCDF	35.0		29-147	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-1,2,3,7,8,9-HxCDF	33.0		28-136	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-1,2,3,4,6,7,8-HpCDF	34.0		28-143	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12-1,2,3,4,7,8,9-HpCDF	37.0		26-138	%	02-AUG-23	19-AUG-23	R5967776
Surrogate: 37Cl4-2,3,7,8-TCDD (Cleanup)	38.0		31-197	%	02-AUG-23	19-AUG-23	R5967776
Lower Bound PCDD/F TEQ (WHO 2005)	0.00		0	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
Mid Point PCDD/F TEQ (WHO 2005)	9.45		0	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
Upper Bound PCDD/F TEQ (WHO 2005)	18.9		0	pg/g wwt	02-AUG-23	19-AUG-23	R5967776
Note: Sample is outside method recovery criteria for select labelled targets, native results are quantified using isotope dilution and are inherently recovery corrected.							
L2751405-11 15867230620006							
Sampled By: LO/CM on 20-JUN-23							
Matrix: MOSS							
All PCB congeners by GC/HRMS							
PCB 1	3.40	M,J,R	0.26	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 2	1.20	M,J,R	0.30	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 3	2.25	M,J	0.25	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 4	16.4		0.69	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 10	<0.33	[U]	0.33	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 9	3.12	[J]	0.32	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 7	1.30	J,R	0.32	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 6	9.13	M	0.34	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 5	<0.36	[U]	0.36	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 8	47.6	M	0.31	pg/g wwt	02-NOV-23	17-NOV-23	R5972336

* 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
L2751405-11 15867230620006							
Sampled By: LO/CM on 20-JUN-23							
Matrix: MOSS							
All PCB congeners by GC/HRMS							
PCB 14	<0.74	[U]	0.74	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 11	16.7	M,B	0.72	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 13/12	5.10	R	0.68	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 15	45.7	M	0.65	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 19	3.88	[J]	0.19	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 30/18	32.1		0.29	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 17	16.9		0.34	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 27	2.84	[J]	0.26	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 24	0.40	J,R	0.28	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 16	15.1		0.38	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 32	11.9		0.24	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 34	<3.6	[U]	3.6	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 23	<3.5	[U]	3.5	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 29/26	17.1	[J]	3.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 25	14.6	[J]	3.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 31	151		3.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 28/20	219		3.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 21/33	59.2	M	3.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 22	56.1	M	3.6	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 36	<3.0	[U]	3.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 39	<3.5	[U]	3.5	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 38	<3.3	[U]	3.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 35	9.5	M,J,R	3.6	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 37	106	M	4.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 54	<1.1	[U]	1.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 50/53	5.7	M,J,R	2.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 45/51	8.6	M,J	2.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 46	3.9	M,J	2.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 52	201	M	2.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 73	<1.5	[U]	1.5	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 43	4.3	M,J,R	2.7	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 69/49	95.8		1.7	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 48	10.4	[J]	2.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 44/47/65	126	M	1.9	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 59/62/75	8.9	M,J	1.5	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 42	26.4	[J]	2.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 41/71/40	38.7	M	2.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 64	82.6	M	1.5	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 72	<5.5	[U]	5.5	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 68	<5.3	[U]	5.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 57	<5.6	[U]	5.6	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 58	<5.6	[U]	5.6	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 67	9.0	M,J	4.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 63	12.0	M,J,R	5.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 61/70/74/76	1210		5.5	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 66	487	M	5.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 55	<5.7	[U]	5.7	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 56	165		5.7	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 60	113	M	5.6	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 80	<4.6	[U]	4.6	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 79	16.0	M,J	4.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336

* 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
L2751405-11 15867230620006							
Sampled By: LO/CM on 20-JUN-23							
Matrix: MOSS							
All PCB congeners by GC/HRMS							
PCB 78	10.0	M,J,R	6.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 81	4.40	M,J,R	0.42	pg/g wwt	02-NOV-23	09-DEC-23	R5972336
PCB 77	165		0.38	pg/g wwt	02-NOV-23	09-DEC-23	R5972336
PCB 104	<1.2	[U]	1.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 96	<1.9	[U]	1.9	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 103	<4.7	[U]	4.7	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 94	<4.9	[U]	4.9	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 95	578	M	5.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 100/93/102/98	20.3	M,J	4.5	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 88/91	110		4.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 84	157		5.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 89	<5.7	[U]	5.7	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 121	<3.3	[U]	3.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 92	216		5.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 113/90/101	1450		3.9	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 83/99	902		4.7	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 112	<3.2	[U]	3.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 109/119/86/97/125/87	885	M	3.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 117/116/85/110/115	2180	M	3.6	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 82	187	M	5.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 111	6.1	M,J	3.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 120	7.5	M,J	3.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 108/124	96.1		3.5	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 107	168		3.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 123	43.0	R	3.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 106	<3.8	[U]	3.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 118	2550		3.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 122	61.0	R	4.7	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 114	87.0	R	4.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 105	1430		3.9	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 127	<3.4	[U]	3.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 126	34.8		0.24	pg/g wwt	02-NOV-23	09-DEC-23	R5972336
PCB 155	<0.49	[U]	0.49	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 152	<0.78	[U]	0.78	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 150	2.20	J,R	0.66	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 136	204	M	0.74	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 145	1.17	M,J	0.72	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 148	<0.97	[U]	0.97	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 151/135	704	M	0.99	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 154	10.7	M,J	0.73	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 144	112		0.97	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 147/149	1610	M	3.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 134/143	77.0		4.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 139/140	31.6	[J]	3.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 131	26.3	[J]	3.9	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 142	<4.1	[U]	4.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 132	662		3.7	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 133	34.8	[J]	3.7	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 165	6.5	[J]	2.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 146	325		3.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 161	<2.6	[U]	2.6	pg/g wwt	02-NOV-23	17-NOV-23	R5972336

* 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
L2751405-11 15867230620006							
Sampled By: LO/CM on 20-JUN-23							
Matrix: MOSS							
All PCB congeners by GC/HRMS							
PCB 168/153	2410		2.7	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 141	560		3.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 130	154		3.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 137/164	307	M	2.9	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 138/163/129	3480		3.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 160	<2.4	[U]	2.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 158	297		2.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 128/166	493		2.9	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 159	33.0	[J]	2.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 162	11.0	M,J,R	2.5	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 167	150		2.5	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 156/157	451		3.7	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 169	1.90	M,J,R	0.14	pg/g wwt	02-NOV-23	09-DEC-23	R5972336
PCB 188	<2.1	[U]	2.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 179	267	M	2.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 184	<2.0	[U]	2.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 176	83.1		2.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 186	<2.2	[U]	2.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 178	171		3.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 175	35.9	[J]	2.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 187	1080		2.6	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 182	<2.6	[U]	2.6	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 183	497		2.6	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 185	87.1	M	3.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 174	890	M	2.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 177	502		2.9	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 181	5.5	[J]	2.9	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 171/173	266		2.9	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 172	173		2.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 192	<2.4	[U]	2.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 180/193	2280		2.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 191	45.1		2.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 170	946		2.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 190	169	M	1.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 189	32.3	[J]	2.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 202	52.3		0.65	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 201	45.0		0.64	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 204	<0.66	[U]	0.66	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 197	13.7	[J]	0.67	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 200	43.4		0.70	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 198/199	448		0.90	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 196	208		0.88	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 203	248		0.87	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 195	123	M	1.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 194	435		1.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 205	21.1	[J]	1.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 208	15.4	M,J	3.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 207	12.5	M,J	3.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 206	87.2	M	5.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 209	12.6	M,J	1.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 1	22.0		5-145	%	02-NOV-23	17-NOV-23	R5972336

* 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
L2751405-11 15867230620006							
Sampled By: LO/CM on 20-JUN-23							
Matrix: MOSS							
All PCB congeners by GC/HRMS							
Surrogate: 13C12 PCB 3	27.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 4	25.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 15	30.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 19	33.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 37	20.0	R	5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 54	26.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 81	32.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 77	29.0	M,R	10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 104	30.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 123	34.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 118	36.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 114	30.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 105	31.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 126	33.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 155	34.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 167	42.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 156/157	41.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 169	41.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 188	36.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 189	39.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 202	41.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 205	41.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 208	37.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 206	40.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 209	34.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 28	32.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 111	40.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 178	39.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Total MonoCB	6.85	[J]	0.25	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Total DiCB	145	[J]	0.31	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Total TriCB	716	[J]	0.19	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Total TetraCB	2800	[J]	0.38	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Total PentaCB	11200	[J]	0.24	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Total HexaCB	12200	[J]	0.14	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Total HeptaCB	7530	[J]	1.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Total OctaCB	1640	[J]	0.64	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Total NonaCB	115	[J]	3.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
DecaCB	12.6	[J]	1.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Total PCB	36300	[J]	1.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Lower Bound PCB TEQ (WHO 2005)	3.63			pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Mid Point PCB TEQ (WHO 2005)	3.70			pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Upper Bound PCB TEQ (WHO 2005)	3.70			pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Dioxins and Furans HR 1613B							
2,3,7,8-TCDD	<0.045	[U]	0.045	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,7,8-PeCDD	0.159	[J]	0.065	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,4,7,8-HxCDD	0.200	M,J,R	0.080	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,6,7,8-HxCDD	0.574	M,J	0.077	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,7,8,9-HxCDD	0.230	J,R	0.077	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,4,6,7,8-HpCDD	5.04		0.15	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
OCDD	19.0		0.12	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
2,3,7,8-TCDF	0.930	J,R	0.062	pg/g wwt	02-NOV-23	12-NOV-23	R5972336

* 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
L2751405-11 15867230620006							
Sampled By: LO/CM on 20-JUN-23							
Matrix: MOSS							
Dioxins and Furans HR 1613B							
1,2,3,7,8-PeCDF	0.305	[J]	0.062	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
2,3,4,7,8-PeCDF	0.570	J,R	0.061	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,4,7,8-HxCDF	0.430	J,R	0.065	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,6,7,8-HxCDF	0.485	[J]	0.070	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
2,3,4,6,7,8-HxCDF	0.685	M,J	0.073	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,7,8,9-HxCDF	<0.10	M,U	0.10	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,4,6,7,8-HpCDF	2.50	[J]	0.095	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,4,7,8,9-HpCDF	0.30	M,J	0.15	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
OCDF	2.88	[J]	0.12	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total-TCDD	<0.045	[U]	0.045	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total TCDD # Homologues	0				02-NOV-23	12-NOV-23	R5972336
Total-PeCDD	2.11		0.065	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total PeCDD # Homologues	5				02-NOV-23	12-NOV-23	R5972336
Total-HxCDD	5.63		0.080	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total HxCDD # Homologues	4				02-NOV-23	12-NOV-23	R5972336
Total-HpCDD	11.2		0.15	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total HpCDD # Homologues	2				02-NOV-23	12-NOV-23	R5972336
Total-TCDF	2.76		0.062	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total TCDF # Homologues	7				02-NOV-23	12-NOV-23	R5972336
Total-PeCDF	3.07		0.062	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total PeCDF # Homologues	7				02-NOV-23	12-NOV-23	R5972336
Total-HxCDF	3.97		0.10	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total HxCDF # Homologues	9				02-NOV-23	12-NOV-23	R5972336
Total-HpCDF	3.40		0.15	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total HpCDF # Homologues	3				02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-2,3,7,8-TCDD	59.0		25-164	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,7,8-PeCDD	63.0		25-181	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,4,7,8-HxCDD	95.0		32-141	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,6,7,8-HxCDD	92.0		28-130	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,4,6,7,8-HpCDD	75.0		23-140	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-OCDD	47.0		17-157	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-2,3,7,8-TCDF	61.0		24-169	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,7,8-PeCDF	71.0		21-192	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-2,3,4,7,8-PeCDF	65.0		21-178	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,4,7,8-HxCDF	106.0		26-152	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,6,7,8-HxCDF	101.0		26-123	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-2,3,4,6,7,8-HxCDF	100.0		29-147	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,7,8,9-HxCDF	90.0		28-136	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,4,6,7,8-HpCDF	78.0		28-143	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,4,7,8,9-HpCDF	70.0		26-138	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 37Cl4-2,3,7,8-TCDD (Cleanup)	63.0		31-197	%	02-NOV-23	12-NOV-23	R5972336
Lower Bound PCDD/F TEQ (WHO 2005)	0.428		0	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Mid Point PCDD/F TEQ (WHO 2005)	0.805		0	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Upper Bound PCDD/F TEQ (WHO 2005)	0.833		0	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
L2751405-12 15867230620106							
Sampled By: LO/CM on 20-JUN-23							
Matrix: LAB TEA							
Miscellaneous Parameters							
% Moisture	65.8		0.10	%	02-AUG-23	03-AUG-23	R5965039
% Moisture	67.4		0.50	%		12-JUL-23	R5963338
Mercury (Hg)-Total	0.0225		0.0050	mg/kg	18-JUL-23	25-JUL-23	R5964336

* 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
L2751405-12 15867230620106							
Sampled By: LO/CM on 20-JUN-23							
Matrix: LAB TEA							
Silver (Ag)-Total	<0.0050		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Sulfur (S)-Total	1210		100	mg/kg	18-JUL-23	19-JUL-23	R5964066
Titanium (Ti)-Total	1.59		0.25	mg/kg	18-JUL-23	19-JUL-23	R5964066
Total Nitrogen by Leco	1.43		0.050	%	21-JUL-23	21-JUL-23	R5964216
Metals in Tissue by CRC ICPMS (DRY)							
Aluminum (Al)-Total	97.8		2.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Antimony (Sb)-Total	<0.010		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Arsenic (As)-Total	0.041		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Barium (Ba)-Total	82.7		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Beryllium (Be)-Total	<0.010		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Bismuth (Bi)-Total	<0.010		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Boron (B)-Total	22.9		1.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cadmium (Cd)-Total	0.0181		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Calcium (Ca)-Total	5570		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cesium (Cs)-Total	0.0256		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Chromium (Cr)-Total	0.134		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cobalt (Co)-Total	0.109		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Copper (Cu)-Total	3.71		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Iron (Fe)-Total	86.1		3.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Lead (Pb)-Total	0.240		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Lithium (Li)-Total	<0.50		0.50	mg/kg	18-JUL-23	19-JUL-23	R5964066
Magnesium (Mg)-Total	1650		2.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Manganese (Mn)-Total	551		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Molybdenum (Mo)-Total	0.026		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Nickel (Ni)-Total	1.52		0.20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Phosphorus (P)-Total	1190		10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Potassium (K)-Total	4290		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Rubidium (Rb)-Total	10.6		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Selenium (Se)-Total	<0.050		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Sodium (Na)-Total	<20		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Strontium (Sr)-Total	6.50		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Tellurium (Te)-Total	<0.020		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Thallium (Tl)-Total	0.0086		0.0020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Tin (Sn)-Total	<0.10		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Uranium (U)-Total	0.0025		0.0020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Vanadium (V)-Total	0.11		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Zinc (Zn)-Total	26.8		0.50	mg/kg	18-JUL-23	19-JUL-23	R5964066
Zirconium (Zr)-Total	<0.20		0.20	mg/kg	18-JUL-23	19-JUL-23	R5964066
All PCB congeners by GC/HRMS							
PCB 1	31	M,J,R	26	pg/g wwt	25-AUG-23	02-SEP-23	R5967776
PCB 2	<24	[U]	24	pg/g wwt	25-AUG-23	02-SEP-23	R5967776
PCB 3	<20	[U]	20	pg/g wwt	25-AUG-23	02-SEP-23	R5967776
PCB 4	<88	[U]	88	pg/g wwt	25-AUG-23	02-SEP-23	R5967776
PCB 10	<38	[U]	38	pg/g wwt	25-AUG-23	02-SEP-23	R5967776
PCB 9	<38	[U]	38	pg/g wwt	25-AUG-23	02-SEP-23	R5967776
PCB 7	<38	[U]	38	pg/g wwt	25-AUG-23	02-SEP-23	R5967776
PCB 6	<40	[U]	40	pg/g wwt	25-AUG-23	02-SEP-23	R5967776
PCB 5	<37	[U]	37	pg/g wwt	25-AUG-23	02-SEP-23	R5967776
PCB 8	359	M	38	pg/g wwt	25-AUG-23	02-SEP-23	R5967776
PCB 14	<100	[U]	100	pg/g wwt	25-AUG-23	02-SEP-23	R5967776
PCB 11	890	M,B	100	pg/g wwt	25-AUG-23	02-SEP-23	R5967776
PCB 13/12	<87	[U]	87	pg/g wwt	25-AUG-23	02-SEP-23	R5967776

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2751405-12 15867230620106							
Sampled By: LO/CM on 20-JUN-23							
Matrix: LAB TEA							
All PCB congeners by GC/HRMS							
PCB 15	230	M,R	70	pg/g wwt	25-AUG-23	02-SEP-23	R5967776
PCB 19	<48	[U]	48	pg/g wwt	25-AUG-23	02-SEP-23	R5967776
PCB 30/18	243	M	40	pg/g wwt	25-AUG-23	02-SEP-23	R5967776
PCB 17	100	M,R	45	pg/g wwt	25-AUG-23	02-SEP-23	R5967776
PCB 27	42	M,J,R	32	pg/g wwt	25-AUG-23	02-SEP-23	R5967776
PCB 24	<36	[U]	36	pg/g wwt	25-AUG-23	02-SEP-23	R5967776
PCB 16	85	R	50	pg/g wwt	25-AUG-23	02-SEP-23	R5967776
PCB 32	78	M	32	pg/g wwt	25-AUG-23	02-SEP-23	R5967776
PCB 34	<60	[U]	60	pg/g wwt	25-AUG-23	02-SEP-23	R5967776
PCB 23	<58	[U]	58	pg/g wwt	25-AUG-23	02-SEP-23	R5967776
PCB 29/26	114	M	54	pg/g wwt	25-AUG-23	02-SEP-23	R5967776
PCB 25	<50	M,U	50	pg/g wwt	25-AUG-23	02-SEP-23	R5967776
PCB 31	481		54	pg/g wwt	25-AUG-23	02-SEP-23	R5967776
PCB 28/20	703		53	pg/g wwt	25-AUG-23	02-SEP-23	R5967776
PCB 21/33	331		53	pg/g wwt	25-AUG-23	02-SEP-23	R5967776
PCB 22	222		57	pg/g wwt	25-AUG-23	02-SEP-23	R5967776
PCB 36	<50	[U]	50	pg/g wwt	25-AUG-23	02-SEP-23	R5967776
PCB 39	<57	[U]	57	pg/g wwt	25-AUG-23	02-SEP-23	R5967776
PCB 38	<55	[U]	55	pg/g wwt	25-AUG-23	02-SEP-23	R5967776
PCB 35	<60	[U]	60	pg/g wwt	25-AUG-23	02-SEP-23	R5967776
PCB 37	473		45	pg/g wwt	25-AUG-23	02-SEP-23	R5967776
PCB 54	<23	[U]	23	pg/g wwt	25-AUG-23	02-SEP-23	R5967776
PCB 50/53	<30	[U]	30	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 45/51	<30	[U]	30	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 46	<32	[U]	32	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 52	179	[B]	30	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 73	<19	[U]	19	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 43	<34	[U]	34	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 69/49	71	[B]	23	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 48	<27	M,U	27	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 44/47/65	134	[B]	25	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 59/62/75	<21	[U]	21	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 42	<30	[U]	30	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 41/71/40	<28	[U]	28	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 64	41	M,J,R	20	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 72	<19	[U]	19	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 68	<18	[U]	18	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 57	<20	[U]	20	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 58	<18	[U]	18	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 67	<17	[U]	17	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 63	<19	[U]	19	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 61/70/74/76	370	M,R	19	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 66	242	M	19	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 55	<20	[U]	20	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 56	67	M	19	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 60	67	M	19	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 80	<16	[U]	16	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 79	<18	[U]	18	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 78	<21	[U]	21	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 81	<17	[U]	17	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 77	168		16	pg/g wwt	25-AUG-23	19-AUG-23	R5967776

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2751405-12 15867230620106							
Sampled By: LO/CM on 20-JUN-23							
Matrix: LAB TEA							
All PCB congeners by GC/HRMS							
PCB 104	<12	[U]	12	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 96	<14	[U]	14	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 103	<21	[U]	21	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 94	<22	[U]	22	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 95	437		26	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 100/93/102/98	<19	[U]	19	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 88/91	53	[J]	21	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 84	86		21	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 89	<28	[U]	28	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 121	<14	[U]	14	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 92	160		24	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 113/90/101	665		18	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 83/99	530		21	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 112	<14	[U]	14	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 109/119/86/97/125/87	474	M	17	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 117/116/85/110/115	992	M	16	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 82	110	R	29	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 111	<13	[U]	13	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 120	<14	[U]	14	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 108/124	40	J,R	18	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 107	60	M,J,R	15	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 123	<17	M,U	17	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 106	<20	[U]	20	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 118	1190		16	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 122	<24	[U]	24	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 114	28	J,R	19	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 105	590	R	16	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 127	<18	[U]	18	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 126	<16	[U]	16	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 155	<5.9	[U]	5.9	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 152	<9.6	[U]	9.6	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 150	<7.6	[U]	7.6	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 136	97.1		9.1	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 145	<8.4	[U]	8.4	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 148	<12	[U]	12	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 151/135	439		12	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 154	<8.3	[U]	8.3	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 144	58	J,R	12	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 147/149	652	M	20	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 134/143	<25	[U]	25	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 139/140	<20	[U]	20	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 131	<24	[U]	24	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 142	<25	[U]	25	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 132	305		23	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 133	<24	[U]	24	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 165	<17	[U]	17	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 146	150	R	18	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 161	<16	[U]	16	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 168/153	1220		16	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 141	235		20	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 130	74	R	24	pg/g wwt	25-AUG-23	19-AUG-23	R5967776

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2751405-12 15867230620106							
Sampled By: LO/CM on 20-JUN-23							
Matrix: LAB TEA							
All PCB congeners by GC/HRMS							
PCB 137/164	138	M	17	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 138/163/129	2040		25	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 160	<10	[U]	10	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 158	140	R	13	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 128/166	212	M	18	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 159	<15	[U]	15	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 162	<15	[U]	15	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 167	79		14	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 156/157	172	M	25	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 169	<15	[U]	15	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 188	<11	[U]	11	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 179	94	R	11	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 184	<11	[U]	11	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 176	31	J,R	12	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 186	<11	[U]	11	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 178	53	[J]	16	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 175	<15	[U]	15	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 187	370	R	14	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 182	<13	[U]	13	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 183	200	R	14	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 185	18	M,J,R	15	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 174	318	M	14	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 177	196		16	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 181	<16	[U]	16	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 171/173	100	R	16	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 172	92		16	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 192	<13	[U]	13	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 180/193	793		13	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 191	23	[J]	12	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 170	339		17	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 190	42	M,J,R	11	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 189	<11	[U]	11	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 202	<12	[U]	12	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 201	20	J,R	13	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 204	<13	[U]	13	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 197	<13	[U]	13	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 200	<14	[U]	14	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 198/199	125	M	20	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 196	64	[J]	20	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 203	63	J,R	18	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 195	46	M,J,R	24	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 194	98	R	23	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 205	<20	[U]	20	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 208	<48	[U]	48	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 207	<55	[U]	55	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 206	<87	[U]	87	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
PCB 209	<12	[U]	12	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12 PCB 1	3.0	G	5-145	%	25-AUG-23	02-SEP-23	R5967776
Surrogate: 13C12 PCB 3	4.0	G	5-145	%	25-AUG-23	02-SEP-23	R5967776
Surrogate: 13C12 PCB 4	3.0	G	5-145	%	25-AUG-23	02-SEP-23	R5967776
Surrogate: 13C12 PCB 15	4.0	G	5-145	%	25-AUG-23	02-SEP-23	R5967776

* 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
L2751405-12 15867230620106							
Sampled By: LO/CM on 20-JUN-23							
Matrix: LAB TEA							
All PCB congeners by GC/HRMS							
Surrogate: 13C12 PCB 19	3.0	M,R	5-145	%	25-AUG-23	02-SEP-23	R5967776
Surrogate: 13C12 PCB 37	5.0		5-145	%	25-AUG-23	02-SEP-23	R5967776
Surrogate: 13C12 PCB 54	3.0	G	5-145	%	25-AUG-23	02-SEP-23	R5967776
Surrogate: 13C12 PCB 81	27.0		10-145	%	25-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12 PCB 77	27.0		10-145	%	25-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12 PCB 104	22.0		10-145	%	25-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12 PCB 123	29.0		10-145	%	25-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12 PCB 118	28.0		10-145	%	25-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12 PCB 114	26.0		10-145	%	25-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12 PCB 105	30.0		10-145	%	25-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12 PCB 126	31.0		10-145	%	25-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12 PCB 155	27.0		10-145	%	25-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12 PCB 167	30.0		10-145	%	25-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12 PCB 156/157	29.0		10-145	%	25-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12 PCB 169	31.0		10-145	%	25-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12 PCB 188	28.0		10-145	%	25-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12 PCB 189	31.0		10-145	%	25-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12 PCB 202	31.0		10-145	%	25-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12 PCB 205	30.0		10-145	%	25-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12 PCB 208	28.0		10-145	%	25-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12 PCB 206	27.0		10-145	%	25-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12 PCB 209	29.0		10-145	%	25-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12 PCB 28	30.0		5-145	%	25-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12 PCB 111	50.0		10-145	%	25-AUG-23	19-AUG-23	R5967776
Surrogate: 13C12 PCB 178	53.0		10-145	%	25-AUG-23	19-AUG-23	R5967776
Total MonoCB	31	[J]	20	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
Total DiCB	1480	[J]	37	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
Total TriCB	2870	[J]	32	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
Total TetraCB	1340	[J]	16	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
Total PentaCB	5420	[J]	12	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
Total HexaCB	6010	[J]	5.9	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
Total HeptaCB	2670	[J]	11	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
Total OctaCB	416	[J]	12	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
Total NonaCB	<48	[U]	48	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
DecaCB	<12	[U]	12	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
Total PCB	20200	[J]	1.0	pg/g wwt	25-AUG-23	19-AUG-23	R5967776
Lower Bound PCB TEQ (WHO 2005)	0.0600			pg/g wwt	25-AUG-23	19-AUG-23	R5967776
Mid Point PCB TEQ (WHO 2005)	1.11			pg/g wwt	25-AUG-23	19-AUG-23	R5967776
Upper Bound PCB TEQ (WHO 2005)	2.13			pg/g wwt	25-AUG-23	19-AUG-23	R5967776
Note: The recoveries of selected surrogates are outside method criteria. As a result, detection limits may be elevated. Native results, calculated via isotope dilution, are recovery corrected and not expected to be biased							
Dioxins and Furans HR 1613B							
2,3,7,8-TCDD	<3.0	[U]	3.0	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,7,8-PeCDD	<3.8	[U]	3.8	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,4,7,8-HxCDD	<3.0	[U]	3.0	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,6,7,8-HxCDD	<3.0	[U]	3.0	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,7,8,9-HxCDD	<3.0	[U]	3.0	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,4,6,7,8-HpCDD	<2.9	[U]	2.9	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
OCDD	<8.0	[U]	8.0	pg/g wwt	02-AUG-23	20-AUG-23	R5967776

* 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
L2751405-12 15867230620106							
Sampled By: LO/CM on 20-JUN-23							
Matrix: LAB TEA							
Dioxins and Furans HR 1613B							
2,3,7,8-TCDF	<2.6	[U]	2.6	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,7,8-PeCDF	<1.4	[U]	1.4	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
2,3,4,7,8-PeCDF	<1.4	[U]	1.4	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,4,7,8-HxCDF	<1.9	[U]	1.9	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,6,7,8-HxCDF	<1.9	[U]	1.9	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
2,3,4,6,7,8-HxCDF	<1.9	[U]	1.9	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,7,8,9-HxCDF	<2.4	[U]	2.4	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,4,6,7,8-HpCDF	<1.9	[U]	1.9	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,4,7,8,9-HpCDF	<2.4	[U]	2.4	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
OCDF	<4.9	[U]	4.9	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Total-TCDD	<3.0	[U]	3.0	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Total TCDD # Homologues	0				02-AUG-23	20-AUG-23	R5967776
Total-PeCDD	<3.8	[U]	3.8	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Total PeCDD # Homologues	0				02-AUG-23	20-AUG-23	R5967776
Total-HxCDD	<3.0	[U]	3.0	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Total HxCDD # Homologues	0				02-AUG-23	20-AUG-23	R5967776
Total-HpCDD	<2.9	[U]	2.9	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Total HpCDD # Homologues	0				02-AUG-23	20-AUG-23	R5967776
Total-TCDF	<2.6	[U]	2.6	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Total TCDF # Homologues	0				02-AUG-23	20-AUG-23	R5967776
Total-PeCDF	1.8		1.4	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Total PeCDF # Homologues	1				02-AUG-23	20-AUG-23	R5967776
Total-HxCDF	<2.4	[U]	2.4	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Total HxCDF # Homologues	0				02-AUG-23	20-AUG-23	R5967776
Total-HpCDF	<2.4	[U]	2.4	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Total HpCDF # Homologues	0				02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-2,3,7,8-TCDD	43.0		25-164	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-1,2,3,7,8-PeCDD	44.0		25-181	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-1,2,3,4,7,8-HxCDD	52.0		32-141	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-1,2,3,6,7,8-HxCDD	52.0		28-130	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-1,2,3,4,6,7,8-HpCDD	61.0		23-140	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-OCDD	56.0		17-157	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-2,3,7,8-TCDF	43.0		24-169	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-1,2,3,7,8-PeCDF	50.0		21-192	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-2,3,4,7,8-PeCDF	48.0		21-178	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-1,2,3,4,7,8-HxCDF	57.0		26-152	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-1,2,3,6,7,8-HxCDF	58.0		26-123	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-2,3,4,6,7,8-HxCDF	62.0		29-147	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-1,2,3,7,8,9-HxCDF	59.0		28-136	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-1,2,3,4,6,7,8-HpCDF	59.0		28-143	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-1,2,3,4,7,8,9-HpCDF	66.0		26-138	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 37Cl4-2,3,7,8-TCDD (Cleanup)	74.0		31-197	%	02-AUG-23	20-AUG-23	R5967776
Lower Bound PCDD/F TEQ (WHO 2005)	0.00		0	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Mid Point PCDD/F TEQ (WHO 2005)	4.65		0	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Upper Bound PCDD/F TEQ (WHO 2005)	9.31		0	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
L2751405-13 15867230620007							
Sampled By: LO/CM on 20-JUN-23							
Matrix: MOSS							
All PCB congeners by GC/HRMS							
PCB 1	5.05	M	0.24	pg/g wwt	02-NOV-23	17-NOV-23	R5972336

* 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
L2751405-13 15867230620007							
Sampled By: LO/CM on 20-JUN-23							
Matrix: MOSS							
All PCB congeners by GC/HRMS							
PCB 2	1.29	M,J	0.27	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 3	2.62	M,J	0.23	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 4	24.0	M	0.69	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 10	0.90	M,J,R	0.34	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 9	3.93	[J]	0.32	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 7	1.42	[J]	0.33	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 6	11.5		0.34	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 5	<0.36	[U]	0.36	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 8	57.0	M	0.31	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 14	<0.73	[U]	0.73	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 11	9.74	M,B	0.70	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 13/12	7.47		0.67	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 15	72.4	M	0.65	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 19	6.29		0.16	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 30/18	54.8		0.20	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 17	24.9		0.23	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 27	4.48	[J]	0.18	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 24	0.76	J,R	0.19	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 16	23.9		0.26	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 32	17.6		0.16	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 34	<5.2	[U]	5.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 23	<5.1	[U]	5.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 29/26	25.3	M,J	4.9	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 25	13.0	J,R	4.6	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 31	191		4.7	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 28/20	245		4.9	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 21/33	74.5		4.7	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 22	67.0	R	5.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 36	<4.4	M,U	4.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 39	<5.1	[U]	5.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 38	<4.9	[U]	4.9	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 35	14.0	M,J,R	5.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 37	156	M	6.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 54	<1.1	[U]	1.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 50/53	12.0	M,J,R	2.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 45/51	16.7	M,J	2.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 46	3.2	J,R	2.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 52	338		2.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 73	<1.4	[U]	1.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 43	8.5	J,R	2.5	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 69/49	138		1.6	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 48	17.9	[J]	1.9	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 44/47/65	169		1.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 59/62/75	15.0	J,R	1.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 42	41.8		2.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 41/71/40	66.1		1.9	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 64	128		1.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 72	<5.9	[U]	5.9	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 68	<5.6	[U]	5.6	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 57	<6.0	[U]	6.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 58	<5.9	[U]	5.9	pg/g wwt	02-NOV-23	17-NOV-23	R5972336

* 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
L2751405-13 15867230620007							
Sampled By: LO/CM on 20-JUN-23							
Matrix: MOSS							
All PCB congeners by GC/HRMS							
PCB 67	18.5	[J]	5.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 63	22.0	M,J	5.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 61/70/74/76	2000		5.9	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 66	802	M	5.6	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 55	<6.1	[U]	6.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 56	261		6.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 60	189	M	5.9	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 80	<4.8	[U]	4.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 79	22.0	M,J	5.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 78	<6.4	[U]	6.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 81	11.1	M	0.46	pg/g wwt	02-NOV-23	09-DEC-23	R5972336
PCB 77	340		0.47	pg/g wwt	02-NOV-23	09-DEC-23	R5972336
PCB 104	<1.2	[U]	1.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 96	4.3	M,J,R	1.7	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 103	<4.4	[U]	4.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 94	<4.6	[U]	4.6	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 95	954	M	4.9	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 100/93/102/98	25.0	M,J,R	4.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 88/91	167		4.5	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 84	241		4.6	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 89	8.7	J,R	5.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 121	<3.1	[U]	3.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 92	363		5.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 113/90/101	2390		3.7	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 83/99	1400		4.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 112	<3.0	[U]	3.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 109/119/86/97/125/87	1360	M	3.6	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 117/116/85/110/115	3460	M	3.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 82	300	M	5.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 111	<3.1	[U]	3.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 120	7.5	M,J,R	3.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 108/124	159		4.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 107	282	M	3.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 123	79.8	M	4.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 106	<4.3	[U]	4.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 118	4720		4.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 122	85.0	R	5.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 114	130	R	4.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 105	2480		4.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 127	7.5	[J]	3.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 126	80.6		0.30	pg/g wwt	02-NOV-23	09-DEC-23	R5972336
PCB 155	<0.96	[U]	0.96	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 152	1.8	M,J	1.6	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 150	6.4	M,J	1.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 136	392	M	1.5	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 145	<1.5	[U]	1.5	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 148	4.3	[J]	2.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 151/135	1350	M	2.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 154	25.7	M,J	1.5	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 144	220		2.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 147/149	2880	M	4.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336

* 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
L2751405-13 15867230620007							
Sampled By: LO/CM on 20-JUN-23							
Matrix: MOSS							
All PCB congeners by GC/HRMS							
PCB 134/143	102		5.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 139/140	59.2		4.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 131	48.3		4.9	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 142	<5.1	[U]	5.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 132	1290		4.7	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 133	64.8		4.7	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 165	11.4	[J]	3.5	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 146	670		3.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 161	<3.3	[U]	3.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 168/153	4750		3.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 141	1110		4.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 130	309		4.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 137/164	571	M	3.6	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 138/163/129	6930		4.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 160	<3.0	[U]	3.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 158	590		2.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 128/166	1010		3.7	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 159	71.7	M	3.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 162	20.0	M,J,R	3.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 167	320		3.5	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 156/157	967		4.7	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 169	5.44	M	0.18	pg/g wwt	02-NOV-23	09-DEC-23	R5972336
PCB 188	<2.8	M,U	2.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 179	514		2.9	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 184	<2.7	M,U	2.7	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 176	173		2.9	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 186	<3.0	[U]	3.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 178	343		4.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 175	73.2		3.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 187	2170		3.6	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 182	<3.6	[U]	3.6	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 183	1030	M	3.5	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 185	160	M	4.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 174	1890	M	3.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 177	1060		3.9	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 181	8.9	J,R	3.9	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 171/173	555		4.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 172	374		3.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 192	<3.2	[U]	3.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 180/193	5000		3.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 191	92.8		2.9	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 170	2160		3.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 190	362	M	2.5	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 189	84.3		2.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 202	104		0.63	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 201	77.6		0.63	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 204	<0.65	[U]	0.65	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 197	27.3	[J]	0.66	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 200	89.6		0.69	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 198/199	958		0.89	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 196	478		0.87	pg/g wwt	02-NOV-23	17-NOV-23	R5972336

* 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
L2751405-13 15867230620007							
Sampled By: LO/CM on 20-JUN-23							
Matrix: MOSS							
All PCB congeners by GC/HRMS							
PCB 203	560		0.85	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 195	351		1.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 194	1020		1.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 205	57.8		1.7	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 208	29.9	[J]	3.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 207	27.2	M,J	3.9	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 206	209		6.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 209	132		0.94	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 1	27.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 3	33.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 4	29.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 15	34.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 19	37.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 37	29.0	M	5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 54	30.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 81	31.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 77	31.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 104	34.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 123	37.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 118	37.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 114	36.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 105	37.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 126	35.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 155	36.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 167	41.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 156/157	42.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 169	45.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 188	37.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 189	41.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 202	45.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 205	45.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 208	38.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 206	44.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 209	39.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 28	35.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 111	44.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 178	43.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Total MonoCB	8.96	[J]	0.23	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Total DiCB	188	[J]	0.31	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Total TriCB	919	[J]	0.16	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Total TetraCB	4620	[J]	0.46	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Total PentaCB	18700	[J]	0.30	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Total HexaCB	23800	[J]	0.18	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Total HeptaCB	16100	[J]	2.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Total OctaCB	3720	[J]	0.63	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Total NonaCB	266	[J]	3.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
DecaCB	132	[J]	0.94	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Total PCB	68400	[J]	1.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Lower Bound PCB TEQ (WHO 2005)	8.52			pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Mid Point PCB TEQ (WHO 2005)	8.52			pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Upper Bound PCB TEQ (WHO 2005)	8.52			pg/g wwt	02-NOV-23	17-NOV-23	R5972336

* 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
L2751405-13 15867230620007							
Sampled By: LO/CM on 20-JUN-23							
Matrix: MOSS							
Dioxins and Furans HR 1613B							
2,3,7,8-TCDD	0.065	[J]	0.028	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
1,2,3,7,8-PeCDD	0.210	M,J,R	0.084	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
1,2,3,4,7,8-HxCDD	0.308	[J]	0.077	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
1,2,3,6,7,8-HxCDD	0.690	J,R	0.077	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
1,2,3,7,8,9-HxCDD	0.700	[J]	0.074	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
1,2,3,4,6,7,8-HpCDD	8.45		0.20	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
OCDD	25.0		0.17	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
2,3,7,8-TCDF	2.41	M	0.028	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
1,2,3,7,8-PeCDF	0.570	J,R	0.056	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
2,3,4,7,8-PeCDF	1.22	[J]	0.052	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
1,2,3,4,7,8-HxCDF	0.899	[J]	0.056	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
1,2,3,6,7,8-HxCDF	0.704	[J]	0.052	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
2,3,4,6,7,8-HxCDF	0.942	M,J	0.058	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
1,2,3,7,8,9-HxCDF	0.262	M,J,B	0.080	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
1,2,3,4,6,7,8-HpCDF	3.95	[J]	0.072	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
1,2,3,4,7,8,9-HpCDF	0.44	J,R	0.11	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
OCDF	3.62	J,B	0.13	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
Total-TCDD	0.223		0.028	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
Total TCDD # Homologues	3				02-NOV-23	01-DEC-23	R5973319
Total-PeCDD	1.32		0.084	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
Total PeCDD # Homologues	5				02-NOV-23	01-DEC-23	R5973319
Total-HxCDD	7.37		0.077	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
Total HxCDD # Homologues	6				02-NOV-23	01-DEC-23	R5973319
Total-HpCDD	16.9		0.20	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
Total HpCDD # Homologues	2				02-NOV-23	01-DEC-23	R5973319
Total-TCDF	10.5		0.028	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
Total TCDF # Homologues	12				02-NOV-23	01-DEC-23	R5973319
Total-PeCDF	8.34		0.056	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
Total PeCDF # Homologues	9				02-NOV-23	01-DEC-23	R5973319
Total-HxCDF	4.55		0.080	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
Total HxCDF # Homologues	10				02-NOV-23	01-DEC-23	R5973319
Total-HpCDF	3.95		0.11	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
Total HpCDF # Homologues	1				02-NOV-23	01-DEC-23	R5973319
Surrogate: 13C12-2,3,7,8-TCDD	67.0		25-164	%	02-NOV-23	01-DEC-23	R5973319
Surrogate: 13C12-1,2,3,7,8-PeCDD	59.0		25-181	%	02-NOV-23	01-DEC-23	R5973319
Surrogate: 13C12-1,2,3,4,7,8-HxCDD	74.0		32-141	%	02-NOV-23	01-DEC-23	R5973319
Surrogate: 13C12-1,2,3,6,7,8-HxCDD	76.0		28-130	%	02-NOV-23	01-DEC-23	R5973319
Surrogate: 13C12-1,2,3,4,6,7,8-HpCDD	65.0		23-140	%	02-NOV-23	01-DEC-23	R5973319
Surrogate: 13C12-OCDD	58.0		17-157	%	02-NOV-23	01-DEC-23	R5973319
Surrogate: 13C12-2,3,7,8-TCDF	61.0		24-169	%	02-NOV-23	01-DEC-23	R5973319
Surrogate: 13C12-1,2,3,7,8-PeCDF	61.0		21-192	%	02-NOV-23	01-DEC-23	R5973319
Surrogate: 13C12-2,3,4,7,8-PeCDF	58.0		21-178	%	02-NOV-23	01-DEC-23	R5973319
Surrogate: 13C12-1,2,3,4,7,8-HxCDF	77.0		26-152	%	02-NOV-23	01-DEC-23	R5973319
Surrogate: 13C12-1,2,3,6,7,8-HxCDF	82.0		26-123	%	02-NOV-23	01-DEC-23	R5973319
Surrogate: 13C12-2,3,4,6,7,8-HxCDF	73.0		29-147	%	02-NOV-23	01-DEC-23	R5973319
Surrogate: 13C12-1,2,3,7,8,9-HxCDF	66.0		28-136	%	02-NOV-23	01-DEC-23	R5973319
Surrogate: 13C12-1,2,3,4,6,7,8-HpCDF	61.0		28-143	%	02-NOV-23	01-DEC-23	R5973319
Surrogate: 13C12-1,2,3,4,7,8,9-HpCDF	55.0		26-138	%	02-NOV-23	01-DEC-23	R5973319
Surrogate: 37Cl4-2,3,7,8-TCDD (Cleanup)	68.0		31-197	%	02-NOV-23	01-DEC-23	R5973319
Lower Bound PCDD/F TEQ (WHO 2005)	1.19		0	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
Mid Point PCDD/F TEQ (WHO 2005)	1.49		0	pg/g wwt	02-NOV-23	01-DEC-23	R5973319

* 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
L2751405-13 15867230620007							
Sampled By: LO/CM on 20-JUN-23							
Matrix: MOSS							
Dioxins and Furans HR 1613B							
Upper Bound PCDD/F TEQ (WHO 2005)	1.49		0	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
L2751405-14 15867230620107							
Sampled By: LO/CM on 20-JUN-23							
Matrix: LAB TEA							
Miscellaneous Parameters							
% Moisture	48.2		0.10	%	02-AUG-23	03-AUG-23	R5965039
% Moisture	51.0		0.50	%		12-JUL-23	R5963338
Mercury (Hg)-Total	0.0165		0.0050	mg/kg	18-JUL-23	25-JUL-23	R5964336
Silver (Ag)-Total	<0.0050		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Sulfur (S)-Total	970		100	mg/kg	18-JUL-23	19-JUL-23	R5964066
Titanium (Ti)-Total	0.75		0.25	mg/kg	18-JUL-23	19-JUL-23	R5964066
Total Nitrogen by Leco	1.28		0.050	%	21-JUL-23	21-JUL-23	R5964216
Metals in Tissue by CRC ICPMS (DRY)							
Aluminum (Al)-Total	72.0		2.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Antimony (Sb)-Total	<0.010		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Arsenic (As)-Total	<0.020		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Barium (Ba)-Total	102		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Beryllium (Be)-Total	<0.010		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Bismuth (Bi)-Total	<0.010		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Boron (B)-Total	17.7		1.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cadmium (Cd)-Total	0.0089		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Calcium (Ca)-Total	6400		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cesium (Cs)-Total	0.0557		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Chromium (Cr)-Total	0.074		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cobalt (Co)-Total	0.030		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Copper (Cu)-Total	2.70		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Iron (Fe)-Total	57.7		3.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Lead (Pb)-Total	0.089		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Lithium (Li)-Total	<0.50		0.50	mg/kg	18-JUL-23	19-JUL-23	R5964066
Magnesium (Mg)-Total	1440		2.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Manganese (Mn)-Total	587		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Molybdenum (Mo)-Total	0.035		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Nickel (Ni)-Total	0.98		0.20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Phosphorus (P)-Total	1080		10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Potassium (K)-Total	3980		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Rubidium (Rb)-Total	17.0		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Selenium (Se)-Total	<0.050		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Sodium (Na)-Total	<20		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Strontium (Sr)-Total	5.29		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Tellurium (Te)-Total	<0.020		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Thallium (Tl)-Total	0.0575		0.0020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Tin (Sn)-Total	<0.10		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Uranium (U)-Total	<0.0020		0.0020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Vanadium (V)-Total	<0.10		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Zinc (Zn)-Total	22.5		0.50	mg/kg	18-JUL-23	19-JUL-23	R5964066
Zirconium (Zr)-Total	<0.20		0.20	mg/kg	18-JUL-23	19-JUL-23	R5964066
All PCB congeners by GC/HRMS							
PCB 1	<1.6	[U]	1.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 2	<1.6	[U]	1.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 3	7.2	[J],R	1.5	pg/g wwt	25-AUG-23	02-SEP-23	R5967736

* 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
L2751405-14 15867230620107							
Sampled By: LO/CM on 20-JUN-23							
Matrix: LAB TEA							
All PCB congeners by GC/HRMS							
PCB 4	<11	[U]	11	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 10	<5.2	[U]	5.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 9	<5.3	[U]	5.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 7	<5.2	[U]	5.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 6	8.9	M,[J],R	5.5	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 5	<5.1	[U]	5.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 8	29.7	M,[J],[B]	5.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 14	<8.3	[U]	8.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 11	103	[B]	8.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 13/12	16.0	M,[J]	7.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 15	69.7		5.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 19	<3.9	[U]	3.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 30/18	34.8	[J]	4.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 17	16.6	M,[J]	4.5	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 27	<3.3	[U]	3.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 24	<3.7	[U]	3.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 16	15.0	[J],R	5.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 32	13.1	[J],[B]	3.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 34	<5.5	[U]	5.5	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 23	<5.3	[U]	5.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 29/26	12.0	M,[J],R	5.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 25	6.1	M,[J],R	4.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 31	93.5	[B]	5.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 28/20	240		4.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 21/33	57.2		4.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 22	45.0	[B]	5.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 36	<4.6	[U]	4.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 39	<5.2	[U]	5.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 38	28.8	[J]	5.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 35	24.0	[J],R	5.5	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 37	206		4.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 54	<1.8	[U]	1.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 50/53	14.8	[J]	3.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 45/51	10.0	[J],R	3.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 46	<3.6	[U]	3.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 52	361		3.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 73	<2.2	[U]	2.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 43	6.1	[J],R	4.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 69/49	98.7	[B]	2.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 48	19.7	M,[J],[B]	3.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 44/47/65	208		2.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 59/62/75	13.0	[J],R	2.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 42	42.7	[J]	3.5	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 41/71/40	71.0	R	3.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 64	82.4		2.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 72	7.8	[J],R	4.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 68	<4.4	[U]	4.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 57	<4.9	[U]	4.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 58	<4.5	[U]	4.5	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 67	14.6	M,[J]	4.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 63	21.0	M,[J]	4.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736

* 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
L2751405-14 15867230620107							
Sampled By: LO/CM on 20-JUN-23							
Matrix: LAB TEA							
All PCB congeners by GC/HRMS							
PCB 61/70/74/76	1120		4.5	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 66	686		4.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 55	6.4	[J]	4.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 56	174		4.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 60	177		4.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 80	<3.9	M,[U]	3.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 79	22.0	M,[J],R	4.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 78	<5.3	[U]	5.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 81	5.6	[J],R	4.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 77	389		4.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 104	<1.6	[U]	1.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 96	6.4	M,[J],R	2.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 103	<5.3	[U]	5.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 94	<5.5	[U]	5.5	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 95	1040	M	6.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 100/93/102/98	27.0	M,[J],R	5.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 88/91	117		5.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 84	221		5.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 89	8.3	M,[J],R	6.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 121	<3.7	[U]	3.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 92	390		6.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 113/90/101	1680		4.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 83/99	1330		5.5	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 112	<3.6	[U]	3.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 109/119/86/97/125/87	905	M	3.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 117/116/85/110/115	3270	M	5.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 82	213		6.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 111	<3.8	M,[U]	3.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 120	18.9	[J]	4.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 108/124	111		4.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 107	169		3.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 123	41.0	[J],R	4.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 106	<5.9	[U]	5.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 118	2630	M	4.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 122	53.1		7.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 114	59.0	R	4.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 105	1290		4.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 127	<4.8	[U]	4.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 126	42.0	[J]	5.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 155	<1.5	[U]	1.5	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 152	2.3	M,[J],R	1.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 150	5.8	M,[J],R	1.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 136	288		2.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 145	<2.0	[U]	2.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 148	6.2	[J]	2.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 151/135	1050		2.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 154	44.2		2.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 144	171		2.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 147/149	1640	M	5.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 134/143	76.0	M,R	6.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 139/140	46.3		5.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736

* 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
L2751405-14 15867230620107							
Sampled By: LO/CM on 20-JUN-23							
Matrix: LAB TEA							
All PCB congeners by GC/HRMS							
PCB 131	30.3	M,[J]	6.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 142	<7.4	[U]	7.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 132	711		6.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 133	49.7		6.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 165	8.4	[J],R	4.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 146	456		5.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 161	<4.6	[U]	4.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 168/153	2900		4.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 141	618		5.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 130	181		6.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 137/164	317	M	4.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 138/163/129	3330		5.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 160	<4.8	[U]	4.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 158	309		3.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 128/166	473		5.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 159	29.0	M,[J],R	4.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 162	15.0	[J],R	4.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 167	116		4.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 156/157	262		5.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 169	<4.7	M,[U]	4.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 188	<2.3	M,[U]	2.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 179	298		2.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 184	<2.6	M,[U]	2.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 176	100		2.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 186	<2.8	[U]	2.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 178	170		4.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 175	45.0	R	3.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 187	915		3.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 182	3.7	[J]	3.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 183	507		3.5	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 185	35.3	M,[J]	3.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 174	709	M	3.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 177	411		3.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 181	4.1	[J],R	3.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 171/173	225		4.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 172	120	R	3.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 192	<3.2	[U]	3.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 180/193	1530		3.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 191	26.2	[J]	2.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 170	614		4.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 190	98.1	M	2.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 189	11.0	M,[J],R	2.5	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 202	35.4	[J]	1.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 201	22	M,[J],R	17	pg/g wwt	25-AUG-23	03-SEP-23	R5967736
PCB 204	<1.7	[U]	1.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 197	10.9	[J]	1.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 200	29.5	[J]	1.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 198/199	192		2.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 196	83.0	R	2.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 203	111		2.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 195	<23	[U]	23	pg/g wwt	25-AUG-23	03-SEP-23	R5967736

* 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
L2751405-14 15867230620107							
Sampled By: LO/CM on 20-JUN-23							
Matrix: LAB TEA							
All PCB congeners by GC/HRMS							
PCB 194	157		3.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 205	3.0	[J],R	2.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 208	<6.6	[U]	6.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 207	<7.4	[U]	7.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 206	<11	[U]	11	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 209	<25	[U]	25	pg/g wwt	25-AUG-23	03-SEP-23	R5967736
Surrogate: 13C12 PCB 1	39.0		5-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 3	44.0		5-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 4	39.0		5-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 15	41.0		5-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 19	35.0		5-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 37	44.0		5-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 54	36.0		5-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 81	46.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 77	45.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 104	37.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 123	45.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 118	44.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 114	43.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 105	44.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 126	45.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 155	37.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 167	45.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 156/157	44.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 169	44.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 188	41.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 189	33.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 202	38.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 205	44.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 208	41.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 206	42.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 209	45.0		10-145	%	25-AUG-23	03-SEP-23	R5967736
Surrogate: 13C12 PCB 28	51.0		5-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 111	52.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 178	49.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Total MonoCB	7.2	[J]	1.5	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Total DiCB	227	[J]	5.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Total TriCB	792	[J]	3.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Total TetraCB	3550	[J]	1.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Total PentaCB	13600	[J]	1.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Total HexaCB	13100	[J]	1.5	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Total HeptaCB	5820	[J]	2.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Total OctaCB	644	[J]	1.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Total NonaCB	<6.6	[U]	6.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
DecaCB	<25	[U]	25	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Total PCB	37800	[J]	1.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Lower Bound PCB TEQ (WHO 2005)	4.37			pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Mid Point PCB TEQ (WHO 2005)	4.44			pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Upper Bound PCB TEQ (WHO 2005)	4.51			pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Dioxins and Furans HR 1613B							
2,3,7,8-TCDD	<2.3	[U]	2.3	pg/g wwt	02-AUG-23	20-AUG-23	R5967776

* 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
L2751405-14 15867230620107							
Sampled By: LO/CM on 20-JUN-23							
Matrix: LAB TEA							
Dioxins and Furans HR 1613B							
1,2,3,7,8-PeCDD	<2.9	[U]	2.9	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,4,7,8-HxCDD	<3.0	[U]	3.0	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,6,7,8-HxCDD	<3.0	[U]	3.0	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,7,8,9-HxCDD	<3.0	[U]	3.0	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,4,6,7,8-HpCDD	<2.8	[U]	2.8	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
OCDD	<4.2	[U]	4.2	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
2,3,7,8-TCDF	<1.9	[U]	1.9	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,7,8-PeCDF	<1.7	[U]	1.7	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
2,3,4,7,8-PeCDF	<1.6	[U]	1.6	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,4,7,8-HxCDF	<1.9	[U]	1.9	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,6,7,8-HxCDF	<2.0	[U]	2.0	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
2,3,4,6,7,8-HxCDF	<1.8	[U]	1.8	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,7,8,9-HxCDF	<2.5	[U]	2.5	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,4,6,7,8-HpCDF	3.2	[J]	1.9	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,4,7,8,9-HpCDF	<2.6	[U]	2.6	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
OCDF	<2.7	[U]	2.7	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Total-TCDD	<2.3	[U]	2.3	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Total TCDD # Homologues	0				02-AUG-23	20-AUG-23	R5967776
Total-PeCDD	<2.9	[U]	2.9	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Total PeCDD # Homologues	0				02-AUG-23	20-AUG-23	R5967776
Total-HxCDD	<3.0	[U]	3.0	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Total HxCDD # Homologues	0				02-AUG-23	20-AUG-23	R5967776
Total-HpCDD	<2.8	[U]	2.8	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Total HpCDD # Homologues	0				02-AUG-23	20-AUG-23	R5967776
Total-TCDF	<1.9	[U]	1.9	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Total TCDF # Homologues	0				02-AUG-23	20-AUG-23	R5967776
Total-PeCDF	<1.7	[U]	1.7	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Total PeCDF # Homologues	0				02-AUG-23	20-AUG-23	R5967776
Total-HxCDF	<2.5	[U]	2.5	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Total HxCDF # Homologues	0				02-AUG-23	20-AUG-23	R5967776
Total-HpCDF	3.2		2.6	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Total HpCDF # Homologues	1				02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-2,3,7,8-TCDD	31.0		25-164	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-1,2,3,7,8-PeCDD	36.0		25-181	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-1,2,3,4,7,8-HxCDD	34.0		32-141	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-1,2,3,6,7,8-HxCDD	34.0		28-130	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-1,2,3,4,6,7,8-HpCDD	37.0		23-140	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-OCDD	35.0		17-157	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-2,3,7,8-TCDF	31.0		24-169	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-1,2,3,7,8-PeCDF	41.0		21-192	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-2,3,4,7,8-PeCDF	38.0		21-178	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-1,2,3,4,7,8-HxCDF	39.0		26-152	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-1,2,3,6,7,8-HxCDF	37.0		26-123	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-2,3,4,6,7,8-HxCDF	41.0		29-147	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-1,2,3,7,8,9-HxCDF	37.0		28-136	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-1,2,3,4,6,7,8-HpCDF	38.0		28-143	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-1,2,3,4,7,8,9-HpCDF	40.0		26-138	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 37Cl4-2,3,7,8-TCDD (Cleanup)	37.0		31-197	%	02-AUG-23	20-AUG-23	R5967776
Lower Bound PCDD/F TEQ (WHO 2005)	0.0319		0	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Mid Point PCDD/F TEQ (WHO 2005)	3.88		0	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Upper Bound PCDD/F TEQ (WHO 2005)	7.73		0	pg/g wwt	02-AUG-23	20-AUG-23	R5967776

* 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
L2751405-15 15867230620008							
Sampled By: LO/CM on 20-JUN-23							
Matrix: MOSS							
All PCB congeners by GC/HRMS							
PCB 1	8.88	M	0.22	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 2	1.80	J,R	0.24	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 3	3.81	M,J	0.20	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 4	37.0		0.72	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 10	1.55	M,J	0.33	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 9	5.09		0.31	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 7	3.23	[J]	0.32	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 6	15.9	M	0.34	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 5	0.88	M,J,R	0.36	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 8	73.2	M	0.31	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 14	<1.0	[U]	1.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 11	13.4	M,B	0.97	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 13/12	4.50	M,J,R	0.92	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 15	46.3	M	0.84	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 19	6.55		0.18	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 30/18	54.3	M	0.30	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 17	23.5		0.35	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 27	4.28	[J]	0.27	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 24	0.91	J,R	0.29	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 16	25.0		0.39	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 32	17.4		0.25	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 34	<5.2	[U]	5.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 23	<5.1	[U]	5.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 29/26	23.5	M,J	4.9	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 25	11.2	M,J	4.6	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 31	153		4.7	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 28/20	188		4.9	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 21/33	84.0		4.7	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 22	64.3		5.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 36	<4.4	[U]	4.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 39	<5.1	[U]	5.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 38	<4.9	[U]	4.9	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 35	6.7	M,J,R	5.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 37	101		6.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 54	<1.4	[U]	1.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 50/53	9.3	M,J,R	2.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 45/51	11.9	M,J	2.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 46	4.1	J,R	2.6	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 52	251		2.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 73	<1.6	[U]	1.6	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 43	5.8	J,R	2.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 69/49	97.3		1.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 48	16.0	J,R	2.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 44/47/65	139		2.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 59/62/75	11.0	J,R	1.6	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 42	33.6	[J]	2.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 41/71/40	61.2		2.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 64	85.1	M	1.6	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 72	<4.3	[U]	4.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 68	<4.1	[U]	4.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336

* 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
L2751405-15 15867230620008							
Sampled By: LO/CM on 20-JUN-23							
Matrix: MOSS							
All PCB congeners by GC/HRMS							
PCB 57	<4.3	[U]	4.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 58	<4.3	[U]	4.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 67	11.6	[J]	3.7	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 63	9.5	J,R	4.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 61/70/74/76	1140		4.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 66	456	M	4.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 55	<4.4	[U]	4.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 56	165		4.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 60	109	M	4.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 80	<3.5	[U]	3.5	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 79	15.9	M,J	3.7	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 78	<4.6	[U]	4.6	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 81	6.07	M	0.33	pg/g wwt	02-NOV-23	09-DEC-23	R5972336
PCB 77	198		0.32	pg/g wwt	02-NOV-23	09-DEC-23	R5972336
PCB 104	<1.2	[U]	1.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 96	3.0	M,J,R	2.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 103	<4.9	[U]	4.9	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 94	<5.2	[U]	5.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 95	623	M	5.5	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 100/93/102/98	20.0	M,J	4.7	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 88/91	97.0		5.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 84	162	M	5.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 89	<6.0	[U]	6.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 121	<3.5	[U]	3.5	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 92	211		5.6	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 113/90/101	1400		4.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 83/99	798		5.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 112	<3.4	[U]	3.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 109/119/86/97/125/87	823	M	4.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 117/116/85/110/115	2080	M	3.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 82	187		5.7	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 111	<3.4	[U]	3.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 120	6.7	M,J	3.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 108/124	98.6		3.6	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 107	160	M	3.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 123	52.8	M	4.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 106	<3.9	[U]	3.9	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 118	2760		3.7	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 122	57.4		4.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 114	83.0		4.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 105	1580	M	4.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 127	3.5	M,J,R	3.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 126	48.1		0.29	pg/g wwt	02-NOV-23	09-DEC-23	R5972336
PCB 155	<0.74	[U]	0.74	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 152	<1.1	M,U	1.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 150	3.10	M,J,R	0.97	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 136	226		1.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 145	<1.1	[U]	1.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 148	<1.4	[U]	1.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 151/135	762	M	1.5	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 154	17.8	M,J	1.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336

* 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
L2751405-15 15867230620008							
Sampled By: LO/CM on 20-JUN-23							
Matrix: MOSS							
All PCB congeners by GC/HRMS							
PCB 144	122		1.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 147/149	1640		5.9	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 134/143	61.0	R	7.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 139/140	27.0	J,R	5.9	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 131	29.5	[J]	7.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 142	<7.4	[U]	7.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 132	716		6.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 133	35.6	[J]	6.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 165	6.7	M,J	5.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 146	362		5.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 161	<4.7	[U]	4.7	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 168/153	2610		4.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 141	623		6.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 130	168		6.9	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 137/164	329	M	5.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 138/163/129	3890		6.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 160	<4.4	[U]	4.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 158	332		4.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 128/166	552		5.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 159	39.4	M	4.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 162	12.7	M,J	4.6	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 167	178		4.6	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 156/157	544		6.7	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 169	3.10	[J]	0.17	pg/g wwt	02-NOV-23	09-DEC-23	R5972336
PCB 188	2.1	M,J,R	1.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 179	277		1.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 184	<1.7	[U]	1.7	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 176	91.3		1.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 186	<1.9	[U]	1.9	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 178	180		2.5	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 175	41.7		2.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 187	1180		2.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 182	<2.3	[U]	2.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 183	557	M	2.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 185	86.7	M	2.6	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 174	1050	M	2.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 177	572		2.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 181	3.2	M,J,R	2.5	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 171/173	308		2.5	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 172	204	M	2.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 192	<2.0	[U]	2.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 180/193	2860		2.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 191	57.1	M	1.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 170	1220		2.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 190	210	M	1.6	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 189	44.9		3.5	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 202	66.2		0.99	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 201	50.1		0.97	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 204	<1.0	[U]	1.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 197	16.0	J,R	1.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 200	57.1		1.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2751405-15 15867230620008							
Sampled By: LO/CM on 20-JUN-23							
Matrix: MOSS							
All PCB congeners by GC/HRMS							
PCB 198/199	538		1.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 196	275		1.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 203	327		1.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 195	194		2.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 194	577		2.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 205	27.4	M,J	2.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 208	18.0	[J]	4.7	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 207	14.0	M,J,R	5.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 206	125		9.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 209	13.5	[J]	1.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 1	24.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 3	31.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 4	25.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 15	31.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 19	34.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 37	23.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 54	26.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 81	31.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 77	26.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 104	32.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 123	32.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 118	33.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 114	32.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 105	31.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 126	30.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 155	32.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 167	40.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 156/157	38.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 169	41.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 188	33.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 189	38.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 202	37.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 205	40.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 208	36.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 206	36.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 209	30.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 28	32.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 111	41.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 178	39.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Total MonoCB	14.5	[J]	0.20	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Total DiCB	201	[J]	0.31	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Total TriCB	764	[J]	0.18	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Total TetraCB	2840	[J]	0.32	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Total PentaCB	11300	[J]	0.29	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Total HexaCB	13300	[J]	0.17	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Total HeptaCB	8950	[J]	1.6	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Total OctaCB	2130	[J]	0.97	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Total NonaCB	157	[J]	4.7	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
DecaCB	13.5	[J]	1.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Total PCB	39600	[J]	1.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Lower Bound PCB TEQ (WHO 2005)	5.08			pg/g wwt	02-NOV-23	17-NOV-23	R5972336

* 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
L2751405-15 15867230620008							
Sampled By: LO/CM on 20-JUN-23							
Matrix: MOSS							
All PCB congeners by GC/HRMS							
Mid Point PCB TEQ (WHO 2005)	5.08			pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Upper Bound PCB TEQ (WHO 2005)	5.08			pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Dioxins and Furans HR 1613B							
2,3,7,8-TCDD	<0.030	[U]	0.030	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,7,8-PeCDD	0.130	J,R	0.073	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,4,7,8-HxCDD	0.180	J,R	0.084	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,6,7,8-HxCDD	0.440	J,R	0.082	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,7,8,9-HxCDD	0.372	[J]	0.081	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,4,6,7,8-HpCDD	5.61		0.16	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
OCDD	16.8		0.42	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
2,3,7,8-TCDF	1.57		0.058	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,7,8-PeCDF	0.430	J,R	0.036	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
2,3,4,7,8-PeCDF	0.855	[J]	0.037	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,4,7,8-HxCDF	0.725	[J]	0.049	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,6,7,8-HxCDF	0.470	[J]	0.052	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
2,3,4,6,7,8-HxCDF	0.590	M,J,R	0.059	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,7,8,9-HxCDF	0.140	M,J,R	0.081	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,4,6,7,8-HpCDF	2.47	[J]	0.11	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,4,7,8,9-HpCDF	<0.18	[U]	0.18	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
OCDF	2.70	[J]	0.14	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total-TCDD	0.071		0.030	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total TCDD # Homologues	1				02-NOV-23	12-NOV-23	R5972336
Total-PeCDD	1.25		0.073	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total PeCDD # Homologues	3				02-NOV-23	12-NOV-23	R5972336
Total-HxCDD	4.07		0.084	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total HxCDD # Homologues	4				02-NOV-23	12-NOV-23	R5972336
Total-HpCDD	11.5		0.16	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total HpCDD # Homologues	2				02-NOV-23	12-NOV-23	R5972336
Total-TCDF	7.84		0.058	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total TCDF # Homologues	16				02-NOV-23	12-NOV-23	R5972336
Total-PeCDF	5.28		0.037	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total PeCDF # Homologues	7				02-NOV-23	12-NOV-23	R5972336
Total-HxCDF	3.40		0.081	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total HxCDF # Homologues	4				02-NOV-23	12-NOV-23	R5972336
Total-HpCDF	2.47		0.18	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total HpCDF # Homologues	1				02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-2,3,7,8-TCDD	77.0		25-164	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,7,8-PeCDD	63.0		25-181	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,4,7,8-HxCDD	99.0		32-141	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,6,7,8-HxCDD	94.0		28-130	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,4,6,7,8-HpCDD	69.0		23-140	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-OCDD	39.0		17-157	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-2,3,7,8-TCDF	75.0		24-169	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,7,8-PeCDF	75.0		21-192	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-2,3,4,7,8-PeCDF	64.0		21-178	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,4,7,8-HxCDF	113.0		26-152	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,6,7,8-HxCDF	110.0		26-123	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-2,3,4,6,7,8-HxCDF	102.0		29-147	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,7,8,9-HxCDF	93.0		28-136	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,4,6,7,8-HpCDF	76.0		28-143	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,4,7,8,9-HpCDF	62.0		26-138	%	02-NOV-23	12-NOV-23	R5972336

* 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
L2751405-15 15867230620008							
Sampled By: LO/CM on 20-JUN-23							
Matrix: MOSS							
Dioxins and Furans HR 1613B							
Surrogate: 37Cl4-2,3,7,8-TCDD (Cleanup)	82.0		31-197	%	02-NOV-23	12-NOV-23	R5972336
Lower Bound PCDD/F TEQ (WHO 2005)	0.657		0	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Mid Point PCDD/F TEQ (WHO 2005)	0.951		0	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Upper Bound PCDD/F TEQ (WHO 2005)	0.967		0	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
L2751405-16 15867230620108							
Sampled By: LO/CM on 20-JUN-23							
Matrix: LAB TEA							
Miscellaneous Parameters							
% Moisture	47.6		0.10	%	02-AUG-23	03-AUG-23	R5965039
% Moisture	50.5		0.50	%		12-JUL-23	R5963338
Mercury (Hg)-Total	0.0170		0.0050	mg/kg	18-JUL-23	25-JUL-23	R5964336
Silver (Ag)-Total	<0.0050		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Sulfur (S)-Total	960		100	mg/kg	18-JUL-23	19-JUL-23	R5964066
Titanium (Ti)-Total	1.02		0.25	mg/kg	18-JUL-23	19-JUL-23	R5964066
Total Nitrogen by Leco	1.22		0.050	%	21-JUL-23	21-JUL-23	R5964216
Metals in Tissue by CRC ICPMS (DRY)							
Aluminum (Al)-Total	74.6		2.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Antimony (Sb)-Total	<0.010		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Arsenic (As)-Total	0.028		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Barium (Ba)-Total	107		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Beryllium (Be)-Total	<0.010		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Bismuth (Bi)-Total	<0.010		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Boron (B)-Total	17.4		1.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cadmium (Cd)-Total	0.0083		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Calcium (Ca)-Total	6640		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cesium (Cs)-Total	0.0748		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Chromium (Cr)-Total	0.136		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cobalt (Co)-Total	0.034		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Copper (Cu)-Total	2.54		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Iron (Fe)-Total	63.5		3.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Lead (Pb)-Total	0.110		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Lithium (Li)-Total	<0.50		0.50	mg/kg	18-JUL-23	19-JUL-23	R5964066
Magnesium (Mg)-Total	1420		2.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Manganese (Mn)-Total	605		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Molybdenum (Mo)-Total	0.035		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Nickel (Ni)-Total	1.01		0.20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Phosphorus (P)-Total	1060		10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Potassium (K)-Total	3800		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Rubidium (Rb)-Total	14.7		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Selenium (Se)-Total	<0.050		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Sodium (Na)-Total	<20		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Strontium (Sr)-Total	6.48		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Tellurium (Te)-Total	<0.020		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Thallium (Tl)-Total	0.0352		0.0020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Tin (Sn)-Total	<0.10		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Uranium (U)-Total	<0.0020		0.0020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Vanadium (V)-Total	<0.10		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Zinc (Zn)-Total	22.8		0.50	mg/kg	18-JUL-23	19-JUL-23	R5964066
Zirconium (Zr)-Total	<0.20		0.20	mg/kg	18-JUL-23	19-JUL-23	R5964066
All PCB congeners by GC/HRMS							

* 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
L2751405-16 15867230620108							
Sampled By: LO/CM on 20-JUN-23							
Matrix: LAB TEA							
All PCB congeners by GC/HRMS							
PCB 1	3.60	[J],R	0.97	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 2	4.72	M,[J]	0.94	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 3	8.68	M,[J]	0.85	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 4	<6.1	[U]	6.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 10	<2.6	[U]	2.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 9	<2.7	[U]	2.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 7	<2.7	[U]	2.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 6	9.3	M,[J],R	2.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 5	<2.6	[U]	2.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 8	31.4	M,[J],[B]	2.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 14	<4.4	[U]	4.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 11	77.8	[B]	4.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 13/12	8.3	[J],R	3.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 15	72.4		3.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 19	<2.8	[U]	2.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 30/18	28.0	[J],R	2.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 17	15.4	M,[J]	3.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 27	3.9	M,[J]	2.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 24	<2.4	[U]	2.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 16	16.7	M,[J]	3.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 32	12.6	[J],[B]	2.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 34	<3.1	[U]	3.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 23	<3.0	[U]	3.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 29/26	14.0	M,[J],R	2.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 25	7.2	M,[J]	2.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 31	90.5	[B]	2.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 28/20	221	M	2.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 21/33	37.0	[J],R	2.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 22	38.6	[J],[B]	2.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 36	<2.6	[U]	2.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 39	<2.9	[U]	2.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 38	23.0	M,[J],R	2.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 35	24.0	[J],R	3.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 37	216		2.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 54	<1.3	[U]	1.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 50/53	11.0	[J],R	1.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 45/51	14.1	M,[J],[B]	1.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 46	3.0	M,[J],R	2.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 52	335	M	1.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 73	<1.2	M,[U]	1.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 43	3.3	M,[J],R	2.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 69/49	96.2	[B]	1.5	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 48	25.1	[J],[B]	1.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 44/47/65	202		1.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 59/62/75	13.0	M,[J],R	1.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 42	37.0	[J]	1.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 41/71/40	71.9	M,[B]	1.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 64	83.2		1.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 72	7.5	[J],R	3.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 68	<3.8	[U]	3.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 57	<4.3	[U]	4.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736

* 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
L2751405-16 15867230620108							
Sampled By: LO/CM on 20-JUN-23							
Matrix: LAB TEA							
All PCB congeners by GC/HRMS							
PCB 58	<4.0	[U]	4.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 67	16.3	[J]	3.5	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 63	16.0	[J],R	4.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 61/70/74/76	1090		4.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 66	692		4.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 55	<4.2	[U]	4.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 56	162		4.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 60	165		4.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 80	<3.4	[U]	3.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 79	21.0	M,[J],R	3.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 78	<4.6	[U]	4.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 81	14.6	M,[J]	4.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 77	408		4.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 104	<1.4	[U]	1.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 96	4.3	[J],R	1.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 103	10.0	[J],R	4.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 94	5.7	M,[J]	4.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 95	990		4.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 100/93/102/98	31.6	M,[J]	3.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 88/91	110		4.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 84	199		4.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 89	6.7	[J],R	5.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 121	<2.8	[U]	2.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 92	407		4.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 113/90/101	1680		3.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 83/99	1370		4.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 112	<2.8	[U]	2.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 109/119/86/97/125/87	880	M	2.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 117/116/85/110/115	2950	M	3.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 82	212		5.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 111	<2.9	M,[U]	2.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 120	19.8	[J]	3.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 108/124	102		4.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 107	164		3.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 123	53.8		4.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 106	<5.0	[U]	5.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 118	2490	M	3.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 122	39.0	[J],R	5.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 114	70.2		4.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 105	1250		3.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 127	<4.1	[U]	4.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 126	44.0	M	4.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 155	<0.66	[U]	0.66	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 152	1.80	M,[J],R	0.85	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 150	4.64	M,[J]	0.77	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 136	268		0.96	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 145	<0.88	[U]	0.88	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 148	4.8	[J],R	1.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 151/135	1140		1.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 154	46.0		0.96	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 144	180		1.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736

* 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
L2751405-16 15867230620108							
Sampled By: LO/CM on 20-JUN-23							
Matrix: LAB TEA							
All PCB congeners by GC/HRMS							
PCB 147/149	1840	M	2.5	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 134/143	101	M	3.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 139/140	52.4		2.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 131	30.0	[J],R	3.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 142	<3.5	[U]	3.5	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 132	724		3.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 133	46.8		3.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 165	9.3	M,[J],R	2.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 146	481	M	2.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 161	<2.2	[U]	2.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 168/153	2940		2.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 141	607		2.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 130	179		3.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 137/164	306	M	2.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 138/163/129	3420		2.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 160	<2.3	[U]	2.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 158	312		1.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 128/166	452		2.5	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 159	32.9	[J]	2.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 162	13.5	[J]	2.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 167	119		2.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 156/157	266		2.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 169	5.5	M,[J],R	2.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 188	2.7	[J],R	1.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 179	265		1.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 184	<1.7	[J],R	1.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 176	84.0	R	1.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 186	<1.8	[U]	1.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 178	151		2.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 175	32.7	[J]	2.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 187	816		2.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 182	5.9	[J],R	2.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 183	483		2.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 185	30.0	M,[J],R	2.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 174	653	M	2.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 177	365		2.5	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 181	4.2	[J]	2.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 171/173	203		2.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 172	120		2.5	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 192	<2.1	[U]	2.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 180/193	1350		2.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 191	25.8	[J]	1.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 170	540		2.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 190	100	M	1.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 189	13.7	M,[J]	1.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 202	41.0	[J]	0.80	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 201	26	[J],R	11	pg/g wwt	25-AUG-23	06-SEP-23	R5967736
PCB 204	<0.83	[U]	0.83	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 197	11.9	[J]	0.80	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 200	27.0	[J],R	0.93	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 198/199	217		1.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736

* 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
L2751405-16 15867230620108							
Sampled By: LO/CM on 20-JUN-23							
Matrix: LAB TEA							
All PCB congeners by GC/HRMS							
PCB 196	117		1.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 203	114		1.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 195	74	[J]	23	pg/g wwt	25-AUG-23	06-SEP-23	R5967736
PCB 194	159		1.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 205	6.8	M,[J],R	1.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 208	5.1	M,[J],R	4.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 207	<4.7	[U]	4.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 206	19.0	M,[J],R	7.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 209	<9.1	[U]	9.1	pg/g wwt	25-AUG-23	06-SEP-23	R5967736
Surrogate: 13C12 PCB 1	50.0		5-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 3	60.0		5-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 4	50.0		5-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 15	55.0		5-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 19	44.0		5-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 37	59.0		5-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 54	44.0		5-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 81	60.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 77	60.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 104	48.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 123	60.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 118	59.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 114	57.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 105	61.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 126	59.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 155	50.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 167	58.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 156/157	57.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 169	60.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 188	55.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 189	57.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 202	51.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 205	58.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 208	56.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 206	55.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 209	76.0		10-145	%	25-AUG-23	06-SEP-23	R5967736
Surrogate: 13C12 PCB 28	70.0		5-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 111	75.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 178	69.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Total MonoCB	17.0	[J]	0.85	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Total DiCB	199	[J]	2.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Total TriCB	748	[J]	2.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Total TetraCB	3490	[J]	1.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Total PentaCB	13100	[J]	1.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Total HexaCB	13600	[J]	0.66	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Total HeptaCB	5240	[J]	1.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Total OctaCB	794	[J]	0.80	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Total NonaCB	24.1	[J]	4.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
DecaCB	<9.1	[U]	9.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Total PCB	37200	[J]	1.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Lower Bound PCB TEQ (WHO 2005)	4.57			pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Mid Point PCB TEQ (WHO 2005)	4.74			pg/g wwt	25-AUG-23	02-SEP-23	R5967736

* 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
L2751405-16 15867230620108							
Sampled By: LO/CM on 20-JUN-23							
Matrix: LAB TEA							
All PCB congeners by GC/HRMS							
Upper Bound PCB TEQ (WHO 2005)	4.74			pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Dioxins and Furans HR 1613B							
2,3,7,8-TCDD	<2.0	[U]	2.0	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,7,8-PeCDD	<1.8	[U]	1.8	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,4,7,8-HxCDD	<1.8	[U]	1.8	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,6,7,8-HxCDD	<2.0	[U]	2.0	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,7,8,9-HxCDD	<1.9	[U]	1.9	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,4,6,7,8-HpCDD	<1.7	[U]	1.7	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
OCDD	7.5	J,R	3.8	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
2,3,7,8-TCDF	<1.6	[U]	1.6	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,7,8-PeCDF	<1.3	[U]	1.3	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
2,3,4,7,8-PeCDF	<1.2	[U]	1.2	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,4,7,8-HxCDF	<1.2	[U]	1.2	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,6,7,8-HxCDF	<1.0	[U]	1.0	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
2,3,4,6,7,8-HxCDF	<1.1	[U]	1.1	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,7,8,9-HxCDF	<1.6	[U]	1.6	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,4,6,7,8-HpCDF	<1.4	[U]	1.4	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,4,7,8,9-HpCDF	<1.8	[U]	1.8	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
OCDF	<2.5	[U]	2.5	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Total-TCDD	<2.0	[U]	2.0	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Total TCDD # Homologues	0				02-AUG-23	20-AUG-23	R5967776
Total-PeCDD	<1.8	[U]	1.8	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Total PeCDD # Homologues	0				02-AUG-23	20-AUG-23	R5967776
Total-HxCDD	<2.0	[U]	2.0	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Total HxCDD # Homologues	0				02-AUG-23	20-AUG-23	R5967776
Total-HpCDD	<1.7	[U]	1.7	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Total HpCDD # Homologues	0				02-AUG-23	20-AUG-23	R5967776
Total-TCDF	<1.6	[U]	1.6	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Total TCDF # Homologues	0				02-AUG-23	20-AUG-23	R5967776
Total-PeCDF	<1.3	[U]	1.3	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Total PeCDF # Homologues	0				02-AUG-23	20-AUG-23	R5967776
Total-HxCDF	<1.6	[U]	1.6	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Total HxCDF # Homologues	0				02-AUG-23	20-AUG-23	R5967776
Total-HpCDF	<1.8	[U]	1.8	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Total HpCDF # Homologues	0				02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-2,3,7,8-TCDD	44.0		25-164	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-1,2,3,7,8-PeCDD	46.0		25-181	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-1,2,3,4,7,8-HxCDD	53.0		32-141	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-1,2,3,6,7,8-HxCDD	47.0		28-130	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-1,2,3,4,6,7,8-HpCDD	55.0		23-140	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-OCDD	48.0		17-157	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-2,3,7,8-TCDF	47.0		24-169	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-1,2,3,7,8-PeCDF	55.0		21-192	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-2,3,4,7,8-PeCDF	52.0		21-178	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-1,2,3,4,7,8-HxCDF	59.0		26-152	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-1,2,3,6,7,8-HxCDF	64.0		26-123	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-2,3,4,6,7,8-HxCDF	62.0		29-147	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-1,2,3,7,8,9-HxCDF	57.0		28-136	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-1,2,3,4,6,7,8-HpCDF	59.0		28-143	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-1,2,3,4,7,8,9-HpCDF	61.0		26-138	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 37Cl4-2,3,7,8-TCDD (Cleanup)	53.0		31-197	%	02-AUG-23	20-AUG-23	R5967776

* 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
L2751405-16 15867230620108							
Sampled By: LO/CM on 20-JUN-23							
Matrix: LAB TEA							
Dioxins and Furans HR 1613B							
Lower Bound PCDD/F TEQ (WHO 2005)	0.00		0	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Mid Point PCDD/F TEQ (WHO 2005)	2.74		0	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Upper Bound PCDD/F TEQ (WHO 2005)	5.47		0	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
L2751405-17 15867230620009							
Sampled By: LO/CM on 20-JUN-23							
Matrix: MOSS							
All PCB congeners by GC/HRMS							
PCB 1	1.50	M,J,R	0.26	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 2	<0.28	[U]	0.28	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 3	<0.23	[U]	0.23	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 4	3.77	[J]	0.58	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 10	<0.27	[U]	0.27	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 9	<0.26	[U]	0.26	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 7	<0.27	[U]	0.27	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 6	1.58	[J]	0.28	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 5	<0.30	[U]	0.30	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 8	6.90	M,R	0.26	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 14	<0.68	[U]	0.68	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 11	7.42	M,B	0.66	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 13/12	<0.63	[U]	0.63	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 15	4.89	M	0.60	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 19	0.82	[J]	0.16	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 30/18	6.96		0.20	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 17	2.90	J,R	0.23	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 27	0.35	J,R	0.17	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 24	<0.19	[U]	0.19	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 16	2.50	J,R	0.25	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 32	2.12	[J]	0.16	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 34	<3.6	[U]	3.6	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 23	<3.5	[U]	3.5	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 29/26	<3.4	[U]	3.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 25	<3.2	[U]	3.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 31	13.9	M,J	3.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 28/20	17.9	[J]	3.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 21/33	3.9	J,R	3.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 22	6.8	M,J	3.6	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 36	<3.0	[U]	3.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 39	<3.5	[U]	3.5	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 38	<3.4	[U]	3.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 35	<3.6	[U]	3.6	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 37	9.1	M,J	4.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 54	<0.95	[U]	0.95	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 50/53	<2.9	[U]	2.9	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 45/51	<2.9	[U]	2.9	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 46	<3.2	[U]	3.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 52	16.6	M,J	2.9	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 73	<2.0	[U]	2.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 43	<3.6	[U]	3.6	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 69/49	9.1	M,J,R	2.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 48	<2.7	[U]	2.7	pg/g wwt	02-NOV-23	17-NOV-23	R5972336

* 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
L2751405-17 15867230620009							
Sampled By: LO/CM on 20-JUN-23							
Matrix: MOSS							
All PCB congeners by GC/HRMS							
PCB 44/47/65	12.9	M,J	2.5	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 59/62/75	<2.0	[U]	2.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 42	4.6	M,J	3.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 41/71/40	5.4	M,J,R	2.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 64	7.2	M,J,R	2.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 72	<3.5	[U]	3.5	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 68	<3.3	[U]	3.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 57	<3.5	[U]	3.5	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 58	<3.5	[U]	3.5	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 67	<3.0	[U]	3.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 63	<3.4	[U]	3.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 61/70/74/76	77.8	M	3.5	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 66	29.7	M,J	3.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 55	<3.6	[U]	3.6	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 56	13.2	M,J	3.5	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 60	7.2	M,J	3.5	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 80	<2.8	[U]	2.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 79	<3.0	[U]	3.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 78	<3.7	[U]	3.7	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 81	0.69	M,J	0.36	pg/g wwt	02-NOV-23	09-DEC-23	R5972336
PCB 77	19.7		0.33	pg/g wwt	02-NOV-23	09-DEC-23	R5972336
PCB 104	<1.0	[U]	1.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 96	<1.7	[U]	1.7	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 103	<2.2	[U]	2.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 94	<2.3	[U]	2.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 95	40.6	M	2.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 100/93/102/98	<2.1	[U]	2.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 88/91	6.3	M,J,R	2.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 84	11.0	M,J	2.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 89	<2.6	[U]	2.6	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 121	<1.5	[U]	1.5	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 92	15.4	[J]	2.5	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 113/90/101	93.2	M	1.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 83/99	56.7		2.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 112	<1.5	[U]	1.5	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 109/119/86/97/125/87	56.7	M	1.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 117/116/85/110/115	122	M	1.7	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 82	9.6	M,J	2.5	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 111	<1.5	[U]	1.5	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 120	<1.5	[U]	1.5	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 108/124	4.5	J,R	1.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 107	10.0	M,J,R	1.6	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 123	2.9	M,J,R	2.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 106	<2.0	[U]	2.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 118	161	M	1.9	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 122	<2.4	[U]	2.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 114	3.4	J,R	2.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 105	82.8		2.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 127	<1.7	[U]	1.7	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 126	3.14	[J]	0.20	pg/g wwt	02-NOV-23	09-DEC-23	R5972336
PCB 155	<0.53	[U]	0.53	pg/g wwt	02-NOV-23	17-NOV-23	R5972336

* 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
L2751405-17 15867230620009							
Sampled By: LO/CM on 20-JUN-23							
Matrix: MOSS							
All PCB congeners by GC/HRMS							
PCB 152	<0.90	[U]	0.90	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 150	<0.77	[U]	0.77	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 136	14.0	J,R	0.86	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 145	<0.83	[U]	0.83	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 148	<1.1	[U]	1.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 151/135	54.8		1.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 154	1.00	J,R	0.85	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 144	8.9	[J]	1.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 147/149	111	M	1.9	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 134/143	5.8	M,J	2.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 139/140	2.0	J,R	1.9	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 131	<2.3	[U]	2.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 142	<2.4	[U]	2.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 132	45.8		2.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 133	<2.2	[U]	2.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 165	<1.6	[U]	1.6	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 146	23.0	J,R	1.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 161	<1.5	[U]	1.5	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 168/153	165		1.6	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 141	36.2	M,J	1.9	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 130	12.2	[J]	2.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 137/164	18.0	M,J,R	1.7	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 138/163/129	223		2.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 160	<1.4	[U]	1.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 158	19.0	[J]	1.3	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 128/166	30.0	J,R	1.7	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 159	<1.4	[U]	1.4	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 162	<1.5	[U]	1.5	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 167	9.0	[J]	1.6	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 156/157	26.0	J,R	2.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 169	0.26	M,J	0.15	pg/g wwt	02-NOV-23	09-DEC-23	R5972336
PCB 188	<0.79	[U]	0.79	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 179	18.2	[J]	0.76	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 184	<0.73	[U]	0.73	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 176	5.90	M,J,R	0.76	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 186	<0.79	[U]	0.79	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 178	10.0	[J]	1.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 175	2.4	J,R	1.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 187	68.4		0.95	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 182	<0.96	[U]	0.96	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 183	30.2	[J]	0.93	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 185	3.2	M,J,R	1.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 174	57.0	M	1.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 177	31.3	[J]	1.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 181	<1.1	[U]	1.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 171/173	19.3	M,J	1.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 172	14.0	M,J	1.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 192	<0.85	[U]	0.85	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 180/193	143		0.83	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 191	3.12	[J]	0.77	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 170	62.3		1.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336

* 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
L2751405-17 15867230620009							
Sampled By: LO/CM on 20-JUN-23							
Matrix: MOSS							
All PCB congeners by GC/HRMS							
PCB 190	11.2	M,J	0.67	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 189	1.6	M,J,R	1.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 202	3.55	M,J	0.52	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 201	2.67	[J]	0.53	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 204	<0.55	[U]	0.55	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 197	0.95	M,J,R	0.56	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 200	3.51	M,J	0.58	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 198/199	26.8	[J]	0.75	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 196	11.0	J,R	0.73	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 203	14.4	[J]	0.72	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 195	11.7	[J]	1.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 194	29.0	M,J,R	1.2	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 205	1.6	M,J,R	1.1	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 208	<3.8	[U]	3.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 207	<4.0	[U]	4.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 206	<7.5	[U]	7.5	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 209	1.70	M,J,R	0.93	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 1	27.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 3	34.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 4	29.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 15	36.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 19	39.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 37	34.0	M	5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 54	31.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 81	38.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 77	35.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 104	36.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 123	42.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 118	40.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 114	39.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 105	39.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 126	37.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 155	40.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 167	50.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 156/157	49.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 169	50.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 188	44.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 189	53.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 202	55.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 205	48.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 208	44.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 206	48.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 209	39.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 28	38.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 111	47.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 178	45.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Total MonoCB	1.50	[J]	0.23	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Total DiCB	24.6	[J]	0.26	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Total TriCB	67.2	[J]	0.16	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Total TetraCB	204	[J]	0.33	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Total PentaCB	679	[J]	0.20	pg/g wwt	02-NOV-23	17-NOV-23	R5972336

* 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
L2751405-17 15867230620009							
Sampled By: LO/CM on 20-JUN-23							
Matrix: MOSS							
All PCB congeners by GC/HRMS							
Total HexaCB	805	[J]	0.15	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Total HeptaCB	481	[J]	0.67	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Total OctaCB	105	[J]	0.52	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Total NonaCB	<3.8	[U]	3.8	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
DecaCB	1.70	[J]	0.93	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Total PCB	2370	[J]	1.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Lower Bound PCB TEQ (WHO 2005)	0.332			pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Mid Point PCB TEQ (WHO 2005)	0.333			pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Upper Bound PCB TEQ (WHO 2005)	0.333			pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Dioxins and Furans HR 1613B							
2,3,7,8-TCDD	<0.034	[U]	0.034	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,7,8-PeCDD	<0.062	[U]	0.062	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,4,7,8-HxCDD	<0.066	[U]	0.066	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,6,7,8-HxCDD	<0.066	[U]	0.066	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,7,8,9-HxCDD	<0.064	[U]	0.064	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,4,6,7,8-HpCDD	1.09	[J]	0.18	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
OCDD	4.41	[J]	0.37	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
2,3,7,8-TCDF	0.409	[J]	0.041	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,7,8-PeCDF	0.092	M,J,R	0.076	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
2,3,4,7,8-PeCDF	0.170	M,J,R	0.084	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,4,7,8-HxCDF	0.100	M,J,R	0.040	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,6,7,8-HxCDF	<0.041	M,U	0.041	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
2,3,4,6,7,8-HxCDF	0.059	M,J,R	0.042	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,7,8,9-HxCDF	<0.065	[U]	0.065	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,4,6,7,8-HpCDF	0.451	[J]	0.036	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,4,7,8,9-HpCDF	0.109	M,J	0.057	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
OCDF	<0.47	[U]	0.47	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total-TCDD	0.153		0.034	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total TCDD # Homologues	2				02-NOV-23	12-NOV-23	R5972336
Total-PeCDD	<0.062	[U]	0.062	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total PeCDD # Homologues	0				02-NOV-23	12-NOV-23	R5972336
Total-HxCDD	0.591		0.066	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total HxCDD # Homologues	2				02-NOV-23	12-NOV-23	R5972336
Total-HpCDD	1.09		0.18	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total HpCDD # Homologues	1				02-NOV-23	12-NOV-23	R5972336
Total-TCDF	0.664		0.041	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total TCDF # Homologues	3				02-NOV-23	12-NOV-23	R5972336
Total-PeCDF	0.695		0.084	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total PeCDF # Homologues	3				02-NOV-23	12-NOV-23	R5972336
Total-HxCDF	0.349		0.065	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total HxCDF # Homologues	2				02-NOV-23	12-NOV-23	R5972336
Total-HpCDF	0.666		0.057	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total HpCDF # Homologues	3				02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-2,3,7,8-TCDD	68.0		25-164	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,7,8-PeCDD	61.0		25-181	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,4,7,8-HxCDD	86.0		32-141	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,6,7,8-HxCDD	90.0		28-130	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,4,6,7,8-HpCDD	72.0		23-140	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-OCDD	44.0		17-157	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-2,3,7,8-TCDF	70.0		24-169	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,7,8-PeCDF	73.0		21-192	%	02-NOV-23	12-NOV-23	R5972336

* 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
L2751405-17 15867230620009							
Sampled By: LO/CM on 20-JUN-23							
Matrix: MOSS							
Dioxins and Furans HR 1613B							
Surrogate: 13C12-2,3,4,7,8-PeCDF	61.0		21-178	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,4,7,8-HxCDF	103.0		26-152	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,6,7,8-HxCDF	102.0		26-123	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-2,3,4,6,7,8-HxCDF	96.0		29-147	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,7,8,9-HxCDF	86.0		28-136	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,4,6,7,8-HpCDF	77.0		28-143	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,4,7,8,9-HpCDF	65.0		26-138	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 37Cl4-2,3,7,8-TCDD (Cleanup)	69.0		31-197	%	02-NOV-23	12-NOV-23	R5972336
Lower Bound PCDD/F TEQ (WHO 2005)	0.0587		0	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Mid Point PCDD/F TEQ (WHO 2005)	0.192		0	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Upper Bound PCDD/F TEQ (WHO 2005)	0.255		0	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
L2751405-18 15867230620109							
Sampled By: LO/CM on 20-JUN-23							
Matrix: LAB TEA							
Miscellaneous Parameters							
% Moisture	52.5		0.10	%	02-AUG-23	03-AUG-23	R5965039
% Moisture	53.4		0.50	%		12-JUL-23	R5963338
Mercury (Hg)-Total	0.0188		0.0050	mg/kg	18-JUL-23	25-JUL-23	R5964336
Silver (Ag)-Total	<0.0050		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Sulfur (S)-Total	1150		100	mg/kg	18-JUL-23	19-JUL-23	R5964066
Titanium (Ti)-Total	1.58		0.25	mg/kg	18-JUL-23	19-JUL-23	R5964066
Total Nitrogen by Leco	1.46		0.050	%	21-JUL-23	21-JUL-23	R5964216
Metals in Tissue by CRC ICPMS (DRY)							
Aluminum (Al)-Total	81.6		2.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Antimony (Sb)-Total	<0.010		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Arsenic (As)-Total	0.024		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Barium (Ba)-Total	102		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Beryllium (Be)-Total	<0.010		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Bismuth (Bi)-Total	<0.010		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Boron (B)-Total	23.9		1.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cadmium (Cd)-Total	0.0085		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Calcium (Ca)-Total	7340		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cesium (Cs)-Total	0.0309		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Chromium (Cr)-Total	0.097		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cobalt (Co)-Total	0.050		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Copper (Cu)-Total	3.24		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Iron (Fe)-Total	83.2		3.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Lead (Pb)-Total	0.066		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Lithium (Li)-Total	<0.50		0.50	mg/kg	18-JUL-23	19-JUL-23	R5964066
Magnesium (Mg)-Total	1750		2.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Manganese (Mn)-Total	970		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Molybdenum (Mo)-Total	<0.020		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Nickel (Ni)-Total	0.65		0.20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Phosphorus (P)-Total	1150		10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Potassium (K)-Total	4160		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Rubidium (Rb)-Total	9.94		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Selenium (Se)-Total	<0.050		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Sodium (Na)-Total	<20		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Strontium (Sr)-Total	8.28		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Tellurium (Te)-Total	<0.020		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2751405-18 15867230620109							
Sampled By: LO/CM on 20-JUN-23							
Matrix: LAB TEA							
Metals in Tissue by CRC ICPMS (DRY)							
Thallium (Tl)-Total	0.0045		0.0020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Tin (Sn)-Total	<0.10		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Uranium (U)-Total	0.0020		0.0020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Vanadium (V)-Total	<0.10		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Zinc (Zn)-Total	28.8		0.50	mg/kg	18-JUL-23	19-JUL-23	R5964066
Zirconium (Zr)-Total	<0.20		0.20	mg/kg	18-JUL-23	19-JUL-23	R5964066
All PCB congeners by GC/HRMS							
PCB 1	4.80	[J],R	0.92	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 2	6.20	M,[J],R	0.87	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 3	14.3	M,[J]	0.77	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 4	<4.5	[U]	4.5	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 10	<2.0	[U]	2.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 9	<2.1	[U]	2.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 7	<2.0	[U]	2.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 6	8.3	[J],R	2.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 5	<2.0	[U]	2.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 8	23.7	M,[J],[B]	2.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 14	<3.7	[U]	3.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 11	102	[B]	3.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 13/12	9.4	M,[J],R	3.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 15	16.0	[J],R	2.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 19	<1.8	[U]	1.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 30/18	17.0	[J],R	2.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 17	6.9	[J]	2.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 27	<1.6	[U]	1.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 24	<1.8	[U]	1.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 16	8.5	M,[J],R	2.5	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 32	5.0	M,[J],R	1.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 34	<2.4	[U]	2.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 23	<2.4	[U]	2.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 29/26	5.6	M,[J]	2.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 25	2.6	M,[J],R	2.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 31	32.4	[J],[B]	2.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 28/20	50.5		2.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 21/33	19.5	M,[J]	2.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 22	13.0	[J],R	2.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 36	<2.1	[U]	2.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 39	<2.3	[U]	2.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 38	23.9	[J]	2.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 35	4.8	M,[J]	2.5	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 37	23.1	M,[J]	1.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 54	<0.85	[U]	0.85	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 50/53	3.3	[J],R	2.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 45/51	6.6	M,[J],R	2.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 46	<2.9	[U]	2.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 52	58.3	[B]	2.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 73	<1.8	[U]	1.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 43	<3.2	[U]	3.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 69/49	21.0	[J],[B]	2.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 48	4.9	[J],R	2.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 44/47/65	43.6	[J]	2.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2751405-18 15867230620109							
Sampled By: LO/CM on 20-JUN-23							
Matrix: LAB TEA							
All PCB congeners by GC/HRMS							
PCB 59/62/75	2.8	[J],R	1.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 42	8.4	[J]	2.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 41/71/40	17.0	M,[J],R	2.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 64	15.8	[J]	1.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 72	<1.9	[U]	1.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 68	2.2	M,[J],R	2.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 57	<2.2	[U]	2.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 58	<2.1	[U]	2.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 67	<1.8	[U]	1.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 63	2.8	[J],R	2.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 61/70/74/76	96.0	[B]	2.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 66	59.1		2.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 55	<2.2	[U]	2.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 56	15.0	[J],R	2.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 60	15.3	[J]	2.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 80	<1.8	[U]	1.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 79	<1.9	M,[U]	1.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 78	<2.4	[U]	2.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 81	<2.1	[U]	2.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 77	29.9	[J]	2.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 104	<0.82	[U]	0.82	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 96	<1.1	[U]	1.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 103	<1.9	[U]	1.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 94	<1.9	[U]	1.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 95	95.4	[B]	2.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 100/93/102/98	<1.8	[U]	1.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 88/91	13.0	M,[J],R	1.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 84	23.3	[J]	2.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 89	<2.4	[U]	2.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 121	<1.3	[U]	1.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 92	35.6	[J]	2.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 113/90/101	143	[B]	1.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 83/99	106	[B]	1.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 112	<1.3	[U]	1.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 109/119/86/97/125/87	78.5	M,[B]	1.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 117/116/85/110/115	252	M	1.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 82	20.8	[J]	2.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 111	<1.3	[U]	1.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 120	<1.4	[U]	1.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 108/124	6.8	[J],R	1.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 107	12.0	M,[J],R	1.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 123	3.3	M,[J],R	1.5	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 106	<1.7	[U]	1.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 118	188		1.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 122	4.0	[J]	2.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 114	3.1	[J],R	1.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 105	84.2		1.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 127	<1.4	[U]	1.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 126	2.6	[J]	1.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 155	<1.3	[U]	1.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 152	<1.6	[U]	1.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736

* 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
L2751405-18 15867230620109							
Sampled By: LO/CM on 20-JUN-23							
Matrix: LAB TEA							
All PCB congeners by GC/HRMS							
PCB 150	<1.4	[U]	1.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 136	24.7	[J]	1.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 145	<1.6	[U]	1.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 148	<2.4	[U]	2.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 151/135	89.0	M	2.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 154	3.7	[J]	1.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 144	12.6	[J]	2.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 147/149	127	M	2.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 134/143	6.3	[J],R	2.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 139/140	2.6	[J],R	2.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 131	2.7	[J],R	2.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 142	<2.9	[U]	2.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 132	60.3		2.5	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 133	4.0	[J],R	2.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 165	<1.8	[U]	1.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 146	37.5	[J]	2.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 161	<1.8	[U]	1.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 168/153	209		1.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 141	37.0	[J],R	2.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 130	8.2	[J],R	2.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 137/164	22.6	M,[J]	1.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 138/163/129	239		2.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 160	<1.9	[U]	1.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 158	21.3	[J]	1.5	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 128/166	31.0	[J],R	2.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 159	3.3	M,[J]	1.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 162	<1.7	[U]	1.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 167	9.1	[J]	1.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 156/157	20.2	[J]	2.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 169	<1.8	M,[U]	1.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 188	<1.8	[U]	1.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 179	30.0	M,[J],R	2.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 184	<2.6	[U]	2.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 176	7.9	[J],R	2.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 186	<2.8	[U]	2.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 178	15.0	[J],R	4.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 175	4.6	M,[J]	3.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 187	81.5		3.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 182	<3.4	[U]	3.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 183	38.0	M,[J],R	3.5	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 185	5.1	M,[J],R	3.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 174	65.5	M	3.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 177	40.0	[J]	3.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 181	<3.8	[U]	3.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 171/173	18.0	[J],R	4.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 172	15.0	[J],R	3.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 192	<3.2	[U]	3.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 180/193	139		3.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 191	<2.9	M,[U]	2.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 170	46.8	[J]	4.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 190	10.2	M,[J]	2.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736

* 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
L2751405-18 15867230620109							
Sampled By: LO/CM on 20-JUN-23							
Matrix: LAB TEA							
All PCB congeners by GC/HRMS							
PCB 189	<2.2	[U]	2.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 202	2.70	[J],R	0.95	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 201	<12	[U]	12	pg/g wwt	25-AUG-23	06-SEP-23	R5967736
PCB 204	<0.96	[U]	0.96	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 197	<0.93	[U]	0.93	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 200	2.1	[J],R	1.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 198/199	18.4	[J]	1.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 196	5.6	[J],R	1.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 203	6.9	M,[J],R	1.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 195	<21	[U]	21	pg/g wwt	25-AUG-23	06-SEP-23	R5967736
PCB 194	9.5	[J]	1.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 205	<0.95	[U]	0.95	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 208	<2.8	[U]	2.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 207	<3.2	[U]	3.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 206	<4.9	[U]	4.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 209	<13	[U]	13	pg/g wwt	25-AUG-23	06-SEP-23	R5967736
Surrogate: 13C12 PCB 1	39.0		5-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 3	47.0		5-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 4	42.0		5-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 15	44.0		5-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 19	38.0		5-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 37	52.0		5-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 54	42.0		5-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 81	54.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 77	55.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 104	44.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 123	53.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 118	53.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 114	52.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 105	54.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 126	56.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 155	45.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 167	52.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 156/157	51.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 169	52.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 188	49.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 189	18.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 202	45.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 205	51.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 208	51.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 206	50.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 209	48.0		10-145	%	25-AUG-23	06-SEP-23	R5967736
Surrogate: 13C12 PCB 28	70.0		5-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 111	75.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 178	69.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Total MonoCB	25.3	[J]	0.77	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Total DiCB	159	[J]	2.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Total TriCB	213	[J]	1.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Total TetraCB	402	[J]	0.85	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Total PentaCB	1070	[J]	0.82	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Total HexaCB	971	[J]	1.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736

* 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
L2751405-18 15867230620109							
Sampled By: LO/CM on 20-JUN-23							
Matrix: LAB TEA							
All PCB congeners by GC/HRMS							
Total HeptaCB	517	[J]	1.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Total OctaCB	45.2	[J]	0.93	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Total NonaCB	<2.8	[U]	2.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
DecaCB	<13	[U]	13	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Total PCB	3400	[J]	1.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Lower Bound PCB TEQ (WHO 2005)	0.268			pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Mid Point PCB TEQ (WHO 2005)	0.296			pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Upper Bound PCB TEQ (WHO 2005)	0.323			pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Dioxins and Furans HR 1613B							
2,3,7,8-TCDD	<1.7	[U]	1.7	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,7,8-PeCDD	<1.6	[U]	1.6	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,4,7,8-HxCDD	<1.5	[U]	1.5	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,6,7,8-HxCDD	<1.6	[U]	1.6	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,7,8,9-HxCDD	<1.5	[U]	1.5	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,4,6,7,8-HpCDD	<2.0	[U]	2.0	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
OCDD	<4.3	[U]	4.3	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
2,3,7,8-TCDF	<1.4	[U]	1.4	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,7,8-PeCDF	<0.87	M,U	0.87	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
2,3,4,7,8-PeCDF	<0.84	M,U	0.84	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,4,7,8-HxCDF	<1.1	[U]	1.1	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,6,7,8-HxCDF	<0.93	[U]	0.93	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
2,3,4,6,7,8-HxCDF	<1.1	[U]	1.1	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,7,8,9-HxCDF	<1.4	[U]	1.4	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,4,6,7,8-HpCDF	<1.2	[U]	1.2	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,4,7,8,9-HpCDF	<1.7	[U]	1.7	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
OCDF	<3.9	[U]	3.9	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Total-TCDD	<1.7	[U]	1.7	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Total TCDD # Homologues	0				02-AUG-23	20-AUG-23	R5967776
Total-PeCDD	<1.6	[U]	1.6	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Total PeCDD # Homologues	0				02-AUG-23	20-AUG-23	R5967776
Total-HxCDD	<1.6	[U]	1.6	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Total HxCDD # Homologues	0				02-AUG-23	20-AUG-23	R5967776
Total-HpCDD	<2.0	[U]	2.0	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Total HpCDD # Homologues	0				02-AUG-23	20-AUG-23	R5967776
Total-TCDF	<1.4	[U]	1.4	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Total TCDF # Homologues	0				02-AUG-23	20-AUG-23	R5967776
Total-PeCDF	0.87		0.87	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Total PeCDF # Homologues	1				02-AUG-23	20-AUG-23	R5967776
Total-HxCDF	<1.4	[U]	1.4	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Total HxCDF # Homologues	0				02-AUG-23	20-AUG-23	R5967776
Total-HpCDF	<1.7	[U]	1.7	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Total HpCDF # Homologues	0				02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-2,3,7,8-TCDD	57.0		25-164	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-1,2,3,7,8-PeCDD	57.0		25-181	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-1,2,3,4,7,8-HxCDD	66.0		32-141	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-1,2,3,6,7,8-HxCDD	59.0		28-130	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-1,2,3,4,6,7,8-HpCDD	67.0		23-140	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-OCDD	53.0		17-157	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-2,3,7,8-TCDF	63.0		24-169	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-1,2,3,7,8-PeCDF	70.0		21-192	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-2,3,4,7,8-PeCDF	64.0		21-178	%	02-AUG-23	20-AUG-23	R5967776

* 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
L2751405-18 15867230620109							
Sampled By: LO/CM on 20-JUN-23							
Matrix: LAB TEA							
Dioxins and Furans HR 1613B							
Surrogate: 13C12-1,2,3,4,7,8-HxCDF	74.0		26-152	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-1,2,3,6,7,8-HxCDF	77.0		26-123	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-2,3,4,6,7,8-HxCDF	75.0		29-147	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-1,2,3,7,8,9-HxCDF	71.0		28-136	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-1,2,3,4,6,7,8-HpCDF	71.0		28-143	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-1,2,3,4,7,8,9-HpCDF	73.0		26-138	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 37Cl4-2,3,7,8-TCDD (Cleanup)	73.0		31-197	%	02-AUG-23	20-AUG-23	R5967776
Lower Bound PCDD/F TEQ (WHO 2005)	0.00		0	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Mid Point PCDD/F TEQ (WHO 2005)	2.34		0	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Upper Bound PCDD/F TEQ (WHO 2005)	4.68		0	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
L2751405-19 15867230620010							
Sampled By: LO/CM on 20-JUN-23							
Matrix: MOSS							
All PCB congeners by GC/HRMS							
PCB 1	<0.23	[U]	0.23	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 2	<0.26	[U]	0.26	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 3	<0.22	[U]	0.22	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 4	<0.84	[U]	0.84	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 10	<0.39	[U]	0.39	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 9	<0.38	[U]	0.38	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 7	<0.38	[U]	0.38	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 6	<0.40	[U]	0.40	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 5	<0.43	[U]	0.43	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 8	1.30	M,J,R	0.37	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 14	<0.85	[U]	0.85	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 11	12.5	[B]	0.82	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 13/12	<0.78	[U]	0.78	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 15	<0.73	[U]	0.73	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 19	0.19	M,J,R	0.17	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 30/18	1.10	M,J,R	0.26	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 17	0.62	J,R	0.30	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 27	<0.23	[U]	0.23	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 24	<0.24	[U]	0.24	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 16	0.35	M,J,R	0.33	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 32	0.41	M,J	0.21	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 34	<4.0	[U]	4.0	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 23	<3.9	[U]	3.9	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 29/26	<3.7	[U]	3.7	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 25	<3.5	[U]	3.5	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 31	<3.6	M,U	3.6	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 28/20	<3.7	M,U	3.7	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 21/33	<3.6	[U]	3.6	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 22	<4.0	[U]	4.0	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 36	<3.3	[U]	3.3	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 39	<3.9	[U]	3.9	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 38	<3.7	[U]	3.7	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 35	<4.0	[U]	4.0	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 37	<5.3	[U]	5.3	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 54	<1.4	[U]	1.4	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 50/53	<2.8	[U]	2.8	pg/g wwt	02-NOV-23	18-NOV-23	R5972336

* 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
L2751405-19 15867230620010							
Sampled By: LO/CM on 20-JUN-23							
Matrix: MOSS							
All PCB congeners by GC/HRMS							
PCB 45/51	<2.9	[U]	2.9	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 46	<3.2	[U]	3.2	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 52	3.0	M,J,R	2.9	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 73	<1.9	[U]	1.9	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 43	<3.5	[U]	3.5	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 69/49	2.3	J,R	2.2	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 48	<2.7	[U]	2.7	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 44/47/65	3.0	M,J	2.5	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 59/62/75	<2.0	[U]	2.0	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 42	<2.9	[U]	2.9	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 41/71/40	<2.7	[U]	2.7	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 64	<2.0	M,U	2.0	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 72	<3.0	[U]	3.0	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 68	<2.9	[U]	2.9	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 57	<3.1	[U]	3.1	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 58	<3.1	[U]	3.1	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 67	<2.6	[U]	2.6	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 63	<3.0	[U]	3.0	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 61/70/74/76	12.2	M,J	3.0	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 66	<2.9	M,U	2.9	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 55	<3.1	[U]	3.1	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 56	<3.1	[U]	3.1	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 60	<3.1	[U]	3.1	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 80	<2.5	[U]	2.5	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 79	<2.6	[U]	2.6	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 78	<3.3	[U]	3.3	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 81	<3.5	[U]	3.5	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 77	<4.4	[U]	4.4	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 104	<1.2	[U]	1.2	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 96	<1.9	[U]	1.9	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 103	<2.6	[U]	2.6	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 94	<2.7	[U]	2.7	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 95	6.2	J,R	2.9	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 100/93/102/98	<2.5	[U]	2.5	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 88/91	<2.7	[U]	2.7	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 84	<2.7	[U]	2.7	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 89	<3.2	[U]	3.2	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 121	<1.8	[U]	1.8	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 92	<2.9	[U]	2.9	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 113/90/101	10.0	M,J,R	2.2	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 83/99	8.4	M,J,R	2.6	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 112	<1.8	[U]	1.8	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 109/119/86/97/125/87	9.7	M,J,R	2.1	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 117/116/85/110/115	19.1	M,J	2.0	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 82	<3.0	[U]	3.0	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 111	<1.8	[U]	1.8	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 120	<1.7	[U]	1.7	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 108/124	<1.7	[U]	1.7	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 107	<1.5	M,U	1.5	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 123	<2.0	[U]	2.0	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 106	<1.8	[U]	1.8	pg/g wwt	02-NOV-23	18-NOV-23	R5972336

* 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
L2751405-19 15867230620010							
Sampled By: LO/CM on 20-JUN-23							
Matrix: MOSS							
All PCB congeners by GC/HRMS							
PCB 118	16.7	M,J	1.6	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 122	<2.3	[U]	2.3	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 114	<1.9	[U]	1.9	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 105	10.3	M,J	2.0	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 127	<1.6	[U]	1.6	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 126	<2.2	[U]	2.2	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 155	<0.61	[U]	0.61	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 152	<0.99	[U]	0.99	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 150	<0.85	[U]	0.85	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 136	3.21	M,J	0.95	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 145	<0.92	[U]	0.92	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 148	<1.2	[U]	1.2	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 151/135	7.0	M,J	1.3	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 154	<0.94	[U]	0.94	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 144	<1.2	[U]	1.2	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 147/149	12.8	M,J	1.3	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 134/143	<1.6	[U]	1.6	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 139/140	<1.3	[U]	1.3	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 131	<1.6	[U]	1.6	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 142	<1.7	[U]	1.7	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 132	5.5	M,J	1.5	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 133	<1.5	[U]	1.5	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 165	<1.1	[U]	1.1	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 146	2.3	J,R	1.2	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 161	<1.1	[U]	1.1	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 168/153	17.0	J,R	1.1	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 141	4.5	[J]	1.3	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 130	<1.6	[U]	1.6	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 137/164	<1.2	[U]	1.2	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 138/163/129	24.0	J,R	1.4	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 160	<0.99	[U]	0.99	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 158	1.20	J,R	0.91	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 128/166	4.8	[J]	1.2	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 159	<0.98	[U]	0.98	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 162	<1.0	[U]	1.0	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 167	1.2	[J]	1.1	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 156/157	2.6	M,J,R	1.5	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 169	<1.3	[U]	1.3	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 188	<0.99	[U]	0.99	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 179	1.5	J,R	1.0	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 184	<0.98	[U]	0.98	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 176	<1.0	M,U	1.0	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 186	<1.1	[U]	1.1	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 178	<1.4	[U]	1.4	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 175	<1.4	[U]	1.4	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 187	7.4	M,J	1.3	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 182	<1.3	[U]	1.3	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 183	3.6	M,J,R	1.3	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 185	<1.5	[U]	1.5	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 174	8.9	M,J	1.4	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 177	3.5	M,J	1.4	pg/g wwt	02-NOV-23	18-NOV-23	R5972336

* 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
L2751405-19 15867230620010							
Sampled By: LO/CM on 20-JUN-23							
Matrix: MOSS							
All PCB congeners by GC/HRMS							
PCB 181	<1.4	[U]	1.4	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 171/173	1.8	J,R	1.4	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 172	<1.4	[U]	1.4	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 192	<1.1	[U]	1.1	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 180/193	17.2	[J]	1.1	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 191	<1.0	[U]	1.0	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 170	6.5	M,J	1.4	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 190	0.91	M,J,R	0.90	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 189	<1.4	[U]	1.4	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 202	<0.59	[U]	0.59	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 201	<0.60	[U]	0.60	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 204	<0.62	[U]	0.62	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 197	<0.63	[U]	0.63	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 200	<0.66	[U]	0.66	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 198/199	3.90	M,J,R	0.85	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 196	3.10	M,J,R	0.83	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 203	<0.81	[U]	0.81	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 195	1.8	M,J,R	1.3	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 194	3.9	M,J,R	1.2	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 205	<1.2	[U]	1.2	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 208	<2.9	[U]	2.9	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 207	<2.9	[U]	2.9	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 206	<5.0	[U]	5.0	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 209	<1.1	[U]	1.1	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
Surrogate: 13C12 PCB 1	28.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 3	33.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 4	29.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 15	35.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 19	40.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 37	30.0	M	5-145	%	02-NOV-23	18-NOV-23	R5972336
Surrogate: 13C12 PCB 54	31.0		5-145	%	02-NOV-23	18-NOV-23	R5972336
Surrogate: 13C12 PCB 81	34.0		10-145	%	02-NOV-23	18-NOV-23	R5972336
Surrogate: 13C12 PCB 77	31.0		10-145	%	02-NOV-23	18-NOV-23	R5972336
Surrogate: 13C12 PCB 104	35.0		10-145	%	02-NOV-23	18-NOV-23	R5972336
Surrogate: 13C12 PCB 123	36.0		10-145	%	02-NOV-23	18-NOV-23	R5972336
Surrogate: 13C12 PCB 118	37.0		10-145	%	02-NOV-23	18-NOV-23	R5972336
Surrogate: 13C12 PCB 114	35.0		10-145	%	02-NOV-23	18-NOV-23	R5972336
Surrogate: 13C12 PCB 105	35.0		10-145	%	02-NOV-23	18-NOV-23	R5972336
Surrogate: 13C12 PCB 126	36.0		10-145	%	02-NOV-23	18-NOV-23	R5972336
Surrogate: 13C12 PCB 155	37.0		10-145	%	02-NOV-23	18-NOV-23	R5972336
Surrogate: 13C12 PCB 167	44.0		10-145	%	02-NOV-23	18-NOV-23	R5972336
Surrogate: 13C12 PCB 156/157	46.0		10-145	%	02-NOV-23	18-NOV-23	R5972336
Surrogate: 13C12 PCB 169	49.0		10-145	%	02-NOV-23	18-NOV-23	R5972336
Surrogate: 13C12 PCB 188	42.0		10-145	%	02-NOV-23	18-NOV-23	R5972336
Surrogate: 13C12 PCB 189	48.0		10-145	%	02-NOV-23	18-NOV-23	R5972336
Surrogate: 13C12 PCB 202	47.0		10-145	%	02-NOV-23	18-NOV-23	R5972336
Surrogate: 13C12 PCB 205	44.0		10-145	%	02-NOV-23	18-NOV-23	R5972336
Surrogate: 13C12 PCB 208	41.0		10-145	%	02-NOV-23	18-NOV-23	R5972336
Surrogate: 13C12 PCB 206	46.0		10-145	%	02-NOV-23	18-NOV-23	R5972336
Surrogate: 13C12 PCB 209	41.0		10-145	%	02-NOV-23	18-NOV-23	R5972336
Surrogate: 13C12 PCB 28	35.0		5-145	%	02-NOV-23	17-NOV-23	R5972336

* 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
L2751405-19 15867230620010							
Sampled By: LO/CM on 20-JUN-23							
Matrix: MOSS							
All PCB congeners by GC/HRMS							
Surrogate: 13C12 PCB 111	43.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 178	40.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Total MonoCB	<0.22	[U]	0.22	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
Total DiCB	13.8	[J]	0.37	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
Total TriCB	2.67	[J]	0.17	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
Total TetraCB	20.5	[J]	1.4	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
Total PentaCB	80.4	[J]	1.2	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
Total HexaCB	86.0	[J]	0.61	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
Total HeptaCB	51.3	[J]	0.90	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
Total OctaCB	12.7	[J]	0.59	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
Total NonaCB	<2.9	[U]	2.9	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
DecaCB	<1.1	[U]	1.1	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
Total PCB	267	[J]	1.0	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
Lower Bound PCB TEQ (WHO 2005)	0.000845			pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Mid Point PCB TEQ (WHO 2005)	0.131			pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Upper Bound PCB TEQ (WHO 2005)	0.262			pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Dioxins and Furans HR 1613B							
2,3,7,8-TCDD	<0.038	[U]	0.038	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,7,8-PeCDD	<0.062	[U]	0.062	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,4,7,8-HxCDD	<0.13	[U]	0.13	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,6,7,8-HxCDD	<0.12	[U]	0.12	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,7,8,9-HxCDD	<0.12	[U]	0.12	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,4,6,7,8-HpCDD	0.45	J,R	0.14	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
OCDD	3.33	[J]	0.43	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
2,3,7,8-TCDF	0.096	M,J,R	0.085	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,7,8-PeCDF	<0.053	[U]	0.053	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
2,3,4,7,8-PeCDF	<0.055	[U]	0.055	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,4,7,8-HxCDF	<0.063	[U]	0.063	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,6,7,8-HxCDF	<0.063	[U]	0.063	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
2,3,4,6,7,8-HxCDF	<0.063	[U]	0.063	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,7,8,9-HxCDF	<0.093	[U]	0.093	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,4,6,7,8-HpCDF	<0.16	[U]	0.16	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,4,7,8,9-HpCDF	<0.20	[U]	0.20	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
OCDF	<0.28	M,U	0.28	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total-TCDD	0.120		0.038	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total TCDD # Homologues	1				02-NOV-23	12-NOV-23	R5972336
Total-PeCDD	<0.062	[U]	0.062	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total PeCDD # Homologues	0				02-NOV-23	12-NOV-23	R5972336
Total-HxCDD	<0.13	[U]	0.13	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total HxCDD # Homologues	0				02-NOV-23	12-NOV-23	R5972336
Total-HpCDD	0.74		0.14	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total HpCDD # Homologues	1				02-NOV-23	12-NOV-23	R5972336
Total-TCDF	0.115		0.085	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total TCDF # Homologues	1				02-NOV-23	12-NOV-23	R5972336
Total-PeCDF	<0.055	[U]	0.055	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total PeCDF # Homologues	0				02-NOV-23	12-NOV-23	R5972336
Total-HxCDF	<0.093	[U]	0.093	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total HxCDF # Homologues	0				02-NOV-23	12-NOV-23	R5972336
Total-HpCDF	<0.20	[U]	0.20	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total HpCDF # Homologues	0				02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-2,3,7,8-TCDD	51.0		25-164	%	02-NOV-23	12-NOV-23	R5972336

* 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
L2751405-19 15867230620010							
Sampled By: LO/CM on 20-JUN-23							
Matrix: MOSS							
Dioxins and Furans HR 1613B							
Surrogate: 13C12-1,2,3,7,8-PeCDD	49.0		25-181	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,4,7,8-HxCDD	62.0		32-141	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,6,7,8-HxCDD	64.0		28-130	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,4,6,7,8-HpCDD	60.0		23-140	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-OCDD	50.0		17-157	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-2,3,7,8-TCDF	52.0		24-169	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,7,8-PeCDF	56.0		21-192	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-2,3,4,7,8-PeCDF	50.0		21-178	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,4,7,8-HxCDF	67.0		26-152	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,6,7,8-HxCDF	66.0		26-123	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-2,3,4,6,7,8-HxCDF	67.0		29-147	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,7,8,9-HxCDF	62.0		28-136	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,4,6,7,8-HpCDF	58.0		28-143	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,4,7,8,9-HpCDF	58.0		26-138	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 37Cl4-2,3,7,8-TCDD (Cleanup)	49.0		31-197	%	02-NOV-23	12-NOV-23	R5972336
Lower Bound PCDD/F TEQ (WHO 2005)	0.000999		0	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Mid Point PCDD/F TEQ (WHO 2005)	0.109		0	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Upper Bound PCDD/F TEQ (WHO 2005)	0.202		0	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
L2751405-20 15867230620110							
Sampled By: LO/CM on 20-JUN-23							
Matrix: LAB TEA							
Miscellaneous Parameters							
% Moisture	51.5		0.10	%	02-AUG-23	03-AUG-23	R5965039
% Moisture	54.7		0.50	%		12-JUL-23	R5963338
Mercury (Hg)-Total	0.0191		0.0050	mg/kg	18-JUL-23	25-JUL-23	R5964336
Silver (Ag)-Total	<0.0050		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Sulfur (S)-Total	1240		100	mg/kg	18-JUL-23	19-JUL-23	R5964066
Titanium (Ti)-Total	1.70		0.25	mg/kg	18-JUL-23	19-JUL-23	R5964066
Total Nitrogen by Leco	1.37		0.050	%	21-JUL-23	21-JUL-23	R5964216
Metals in Tissue by CRC ICPMS (DRY)							
Aluminum (Al)-Total	93.5		2.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Antimony (Sb)-Total	<0.010		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Arsenic (As)-Total	0.026		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Barium (Ba)-Total	95.4		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Beryllium (Be)-Total	<0.010		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Bismuth (Bi)-Total	<0.010		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Boron (B)-Total	26.1		1.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cadmium (Cd)-Total	0.0104		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Calcium (Ca)-Total	7280		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cesium (Cs)-Total	0.0440		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Chromium (Cr)-Total	0.108		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cobalt (Co)-Total	0.051		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Copper (Cu)-Total	3.41		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Iron (Fe)-Total	91.3		3.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Lead (Pb)-Total	0.057		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Lithium (Li)-Total	<0.50		0.50	mg/kg	18-JUL-23	19-JUL-23	R5964066
Magnesium (Mg)-Total	1730		2.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Manganese (Mn)-Total	949		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Molybdenum (Mo)-Total	<0.020		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Nickel (Ni)-Total	0.49		0.20	mg/kg	18-JUL-23	19-JUL-23	R5964066

* 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
L2751405-20 15867230620110							
Sampled By: LO/CM on 20-JUN-23							
Matrix: LAB TEA							
Metals in Tissue by CRC ICPMS (DRY)							
Phosphorus (P)-Total	1340		10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Potassium (K)-Total	4800		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Rubidium (Rb)-Total	13.6		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Selenium (Se)-Total	<0.050		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Sodium (Na)-Total	<20		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Strontium (Sr)-Total	12.3		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Tellurium (Te)-Total	<0.020		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Thallium (Tl)-Total	0.0076		0.0020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Tin (Sn)-Total	<0.10		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Uranium (U)-Total	0.0026		0.0020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Vanadium (V)-Total	0.12		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Zinc (Zn)-Total	29.4		0.50	mg/kg	18-JUL-23	19-JUL-23	R5964066
Zirconium (Zr)-Total	<0.20		0.20	mg/kg	18-JUL-23	19-JUL-23	R5964066
All PCB congeners by GC/HRMS							
PCB 1	<5.9	[U]	5.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 2	<5.6	[U]	5.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 3	<5.0	[U]	5.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 4	<31	[U]	31	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 10	<12	[U]	12	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 9	<12	[U]	12	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 7	<12	[U]	12	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 6	<13	[U]	13	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 5	<12	[U]	12	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 8	<12	[U]	12	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 14	<22	[U]	22	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 11	95	R	21	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 13/12	<18	M,[U]	18	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 15	<14	M,[U]	14	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 19	<12	[U]	12	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 30/18	24	[J]	14	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 17	<16	[U]	16	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 27	<11	[U]	11	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 24	<13	[U]	13	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 16	<17	M,[U]	17	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 32	<11	[U]	11	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 34	<13	[U]	13	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 23	<13	[U]	13	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 29/26	<12	[U]	12	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 25	<11	[U]	11	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 31	37	M,[J],R	12	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 28/20	56		12	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 21/33	22	[J],R	12	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 22	24	M,[J],[B]	12	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 36	<11	[U]	11	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 39	<12	[U]	12	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 38	43	[J]	12	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 35	<13	[U]	13	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 37	<11	[U]	11	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 54	<6.6	[U]	6.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 50/53	<7.6	[U]	7.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 45/51	<8.0	[U]	8.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2751405-20 15867230620110							
Sampled By: LO/CM on 20-JUN-23							
Matrix: LAB TEA							
All PCB congeners by GC/HRMS							
PCB 46	<8.5	[U]	8.5	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 52	8.1	M,[J],R	7.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 73	<5.2	[U]	5.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 43	<9.4	[U]	9.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 69/49	<6.2	[U]	6.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 48	<7.6	[U]	7.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 44/47/65	26.8	M,[J]	6.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 59/62/75	<5.6	[U]	5.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 42	<8.2	[U]	8.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 41/71/40	<7.7	[U]	7.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 64	<5.5	[U]	5.5	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 72	<6.9	[U]	6.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 68	<7.1	[U]	7.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 57	<7.9	[U]	7.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 58	<7.3	[U]	7.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 67	<6.5	[U]	6.5	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 63	<7.7	[U]	7.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 61/70/74/76	17.0	M,[J],R	7.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 66	11.0	M,[J],R	7.5	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 55	<7.8	[U]	7.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 56	<7.5	[U]	7.5	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 60	<7.7	[U]	7.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 80	<6.3	[U]	6.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 79	<6.6	[U]	6.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 78	<8.5	[U]	8.5	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 81	<6.8	[U]	6.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 77	<6.7	[U]	6.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 104	<3.6	[U]	3.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 96	<3.1	[U]	3.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 103	<8.1	[U]	8.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 94	<8.4	[U]	8.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 95	25.8	M,[J],[B]	9.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 100/93/102/98	<7.7	[U]	7.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 88/91	<8.4	[U]	8.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 84	<8.8	[U]	8.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 89	<10	[U]	10	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 121	<5.7	[U]	5.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 92	<9.5	[U]	9.5	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 113/90/101	32.9	[J],[B]	6.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 83/99	28.3	M,[J],[B]	8.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 112	<5.6	[U]	5.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 109/119/86/97/125/87	14.0	M,[J],R	5.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 117/116/85/110/115	55.0	M,R	7.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 82	<10	[U]	10	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 111	<5.8	[U]	5.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 120	<6.1	[U]	6.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 108/124	<7.4	[U]	7.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 107	<5.9	[U]	5.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 123	<6.7	[U]	6.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 106	<9.0	[U]	9.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 118	28.8	M,[J]	6.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736

* 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
L2751405-20 15867230620110							
Sampled By: LO/CM on 20-JUN-23							
Matrix: LAB TEA							
All PCB congeners by GC/HRMS							
PCB 122	<11	[U]	11	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 114	<6.8	[U]	6.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 105	17.0	M,[J]	6.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 127	<7.3	[U]	7.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 126	<5.7	[U]	5.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 155	<2.4	[U]	2.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 152	<2.3	[U]	2.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 150	<2.1	[U]	2.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 136	<2.6	[U]	2.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 145	<2.4	[U]	2.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 148	<3.4	[U]	3.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 151/135	15.0	M,[J],R	3.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 154	<2.6	[U]	2.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 144	<3.4	[U]	3.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 147/149	18.1	M,[J]	3.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 134/143	<4.8	[U]	4.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 139/140	<4.0	[U]	4.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 131	<4.9	[U]	4.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 142	<5.4	[U]	5.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 132	7.2	M,[J]	4.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 133	<4.9	[U]	4.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 165	<3.4	[U]	3.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 146	<3.7	[U]	3.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 161	<3.4	[U]	3.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 168/153	27.7	[J]	3.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 141	4.3	M,[J],R	4.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 130	<5.0	[U]	5.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 137/164	<3.6	[U]	3.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 138/163/129	32.0	[J],[B]	4.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 160	<3.5	[U]	3.5	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 158	3.7	[J]	2.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 128/166	<3.9	[U]	3.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 159	<3.1	[U]	3.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 162	<3.2	[U]	3.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 167	<3.1	[U]	3.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 156/157	<4.0	[U]	4.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 169	<2.9	[U]	2.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 188	<3.0	[U]	3.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 179	<2.9	[U]	2.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 184	<2.7	[U]	2.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 176	<3.0	[U]	3.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 186	<3.0	[U]	3.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 178	<4.2	[U]	4.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 175	<4.0	[U]	4.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 187	<3.6	[U]	3.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 182	<3.7	[U]	3.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 183	5.7	M,[J]	3.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 185	<4.0	[U]	4.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 174	7.9	[J],R	3.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 177	<4.2	[U]	4.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 181	<4.0	[U]	4.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736

* 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
L2751405-20 15867230620110							
Sampled By: LO/CM on 20-JUN-23							
Matrix: LAB TEA							
All PCB congeners by GC/HRMS							
PCB 171/173	<4.2	[U]	4.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 172	<4.1	[U]	4.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 192	<3.4	[U]	3.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 180/193	21.0	[J],R	3.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 191	<3.1	[U]	3.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 170	<4.4	[U]	4.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 190	2.9	M,[J],R	2.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 189	<1.8	[U]	1.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 202	<2.1	[U]	2.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 201	<7.3	[U]	7.3	pg/g wwt	25-AUG-23	06-SEP-23	R5967736
PCB 204	<1.9	[U]	1.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 197	<1.8	[U]	1.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 200	<2.1	[U]	2.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 198/199	12.9	M,[J]	2.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 196	<2.7	[U]	2.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 203	<2.5	[U]	2.5	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 195	<17	[U]	17	pg/g wwt	25-AUG-23	06-SEP-23	R5967736
PCB 194	<2.3	[U]	2.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 205	<1.7	[U]	1.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 208	<7.4	[U]	7.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 207	<8.1	[U]	8.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 206	<12	[U]	12	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 209	<11	[U]	11	pg/g wwt	25-AUG-23	06-SEP-23	R5967736
Surrogate: 13C12 PCB 1	41.0		5-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 3	51.0		5-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 4	42.0		5-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 15	52.0		5-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 19	36.0		5-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 37	59.0		5-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 54	60.0		5-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 81	54.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 77	56.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 104	28.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 123	60.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 118	58.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 114	57.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 105	62.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 126	70.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 155	47.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 167	59.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 156/157	58.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 169	68.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 188	48.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 189	61.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 202	52.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 205	51.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 208	48.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 206	51.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 209	56.0		10-145	%	25-AUG-23	06-SEP-23	R5967736
Surrogate: 13C12 PCB 28	126.0		5-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 111	81.0		10-145	%	25-AUG-23	02-SEP-23	R5967736

* 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
L2751405-20 15867230620110							
Sampled By: LO/CM on 20-JUN-23							
Matrix: LAB TEA							
All PCB congeners by GC/HRMS							
Surrogate: 13C12 PCB 178	75.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Total MonoCB	<5.0	[U]	5.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Total DiCB	95	[J]	12	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Total TriCB	207	[J]	11	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Total TetraCB	62.9	[J]	5.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Total PentaCB	202	[J]	3.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Total HexaCB	108	[J]	2.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Total HeptaCB	37.5	[J]	1.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Total OctaCB	12.9	[J]	1.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Total NonaCB	<7.4	[U]	7.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
DecaCB	<11	[U]	11	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Total PCB	725	[J]	1.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Lower Bound PCB TEQ (WHO 2005)	0.00137			pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Mid Point PCB TEQ (WHO 2005)	0.332			pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Upper Bound PCB TEQ (WHO 2005)	0.662			pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Dioxins and Furans HR 1613B							
2,3,7,8-TCDD	<3.3	[U]	3.3	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,7,8-PeCDD	<2.7	[U]	2.7	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,4,7,8-HxCDD	<2.8	[U]	2.8	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,6,7,8-HxCDD	<2.8	[U]	2.8	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,7,8,9-HxCDD	<2.8	[U]	2.8	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,4,6,7,8-HpCDD	<2.5	[U]	2.5	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
OCDD	<6.2	M,U	6.2	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
2,3,7,8-TCDF	<2.1	[U]	2.1	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,7,8-PeCDF	<1.8	[U]	1.8	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
2,3,4,7,8-PeCDF	<1.8	[U]	1.8	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,4,7,8-HxCDF	<1.9	[U]	1.9	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,6,7,8-HxCDF	<1.9	[U]	1.9	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
2,3,4,6,7,8-HxCDF	<2.0	[U]	2.0	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,7,8,9-HxCDF	<2.7	[U]	2.7	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,4,6,7,8-HpCDF	<2.5	[U]	2.5	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,4,7,8,9-HpCDF	<3.6	[U]	3.6	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
OCDF	<4.2	[U]	4.2	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Total-TCDD	<3.3	[U]	3.3	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Total TCDD # Homologues	0				02-AUG-23	20-AUG-23	R5967776
Total-PeCDD	<2.7	[U]	2.7	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Total PeCDD # Homologues	0				02-AUG-23	20-AUG-23	R5967776
Total-HxCDD	<2.8	[U]	2.8	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Total HxCDD # Homologues	0				02-AUG-23	20-AUG-23	R5967776
Total-HpCDD	<2.5	[U]	2.5	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Total HpCDD # Homologues	0				02-AUG-23	20-AUG-23	R5967776
Total-TCDF	<2.1	[U]	2.1	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Total TCDF # Homologues	0				02-AUG-23	20-AUG-23	R5967776
Total-PeCDF	<1.8	[U]	1.8	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Total PeCDF # Homologues	0				02-AUG-23	20-AUG-23	R5967776
Total-HxCDF	<2.7	[U]	2.7	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Total HxCDF # Homologues	0				02-AUG-23	20-AUG-23	R5967776
Total-HpCDF	<3.6	[U]	3.6	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Total HpCDF # Homologues	0				02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-2,3,7,8-TCDD	41.0		25-164	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-1,2,3,7,8-PeCDD	43.0		25-181	%	02-AUG-23	20-AUG-23	R5967776

* 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
L2751405-20 15867230620110							
Sampled By: LO/CM on 20-JUN-23							
Matrix: LAB TEA							
Dioxins and Furans HR 1613B							
Surrogate: 13C12-1,2,3,4,7,8-HxCDD	51.0		32-141	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-1,2,3,6,7,8-HxCDD	47.0		28-130	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-1,2,3,4,6,7,8-HpCDD	53.0		23-140	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-OCDD	46.0		17-157	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-2,3,7,8-TCDF	47.0		24-169	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-1,2,3,7,8-PeCDF	55.0		21-192	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-2,3,4,7,8-PeCDF	49.0		21-178	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-1,2,3,4,7,8-HxCDF	59.0		26-152	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-1,2,3,6,7,8-HxCDF	62.0		26-123	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-2,3,4,6,7,8-HxCDF	62.0		29-147	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-1,2,3,7,8,9-HxCDF	55.0		28-136	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-1,2,3,4,6,7,8-HpCDF	57.0		28-143	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-1,2,3,4,7,8,9-HpCDF	57.0		26-138	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 37Cl4-2,3,7,8-TCDD (Cleanup)	51.0		31-197	%	02-AUG-23	20-AUG-23	R5967776
Lower Bound PCDD/F TEQ (WHO 2005)	0.00		0	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Mid Point PCDD/F TEQ (WHO 2005)	4.29		0	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Upper Bound PCDD/F TEQ (WHO 2005)	8.58		0	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
L2751405-21 15867230620011							
Sampled By: LO/CM on 20-JUN-23							
Matrix: MOSS							
All PCB congeners by GC/HRMS							
PCB 1	<0.32	[U]	0.32	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 2	<0.36	[U]	0.36	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 3	0.68	M,J,R	0.30	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 4	<0.97	[U]	0.97	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 10	<0.45	[U]	0.45	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 9	<0.43	[U]	0.43	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 7	<0.44	[U]	0.44	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 6	<0.46	[U]	0.46	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 5	<0.49	[U]	0.49	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 8	1.38	M,J	0.42	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 14	<1.0	[U]	1.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 11	12.4	M,B	1.0	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 13/12	<0.96	[U]	0.96	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 15	<0.88	[U]	0.88	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 19	<0.21	[U]	0.21	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 30/18	1.10	M,J	0.27	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 17	0.67	M,J,R	0.31	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 27	<0.24	[U]	0.24	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 24	<0.25	[U]	0.25	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 16	0.40	M,J,R	0.35	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 32	0.47	M,J,R	0.22	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 34	<3.2	[U]	3.2	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 23	<3.2	[U]	3.2	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 29/26	<3.0	[U]	3.0	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 25	<2.8	[U]	2.8	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 31	3.5	M,J	2.9	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 28/20	5.3	M,J,R	3.0	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 21/33	<2.9	[U]	2.9	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 22	<3.2	[U]	3.2	pg/g wwt	02-NOV-23	18-NOV-23	R5972336

* 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
L2751405-21 15867230620011							
Sampled By: LO/CM on 20-JUN-23							
Matrix: MOSS							
All PCB congeners by GC/HRMS							
PCB 36	<2.7	[U]	2.7	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 39	<3.2	[U]	3.2	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 38	<3.0	[U]	3.0	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 35	<3.3	[U]	3.3	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 37	<4.1	[U]	4.1	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 54	<1.1	[U]	1.1	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 50/53	<3.1	[U]	3.1	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 45/51	<3.2	[U]	3.2	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 46	<3.5	[U]	3.5	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 52	4.2	M,J,R	3.1	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 73	<2.1	[U]	2.1	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 43	<3.8	[U]	3.8	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 69/49	<2.5	[U]	2.5	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 48	<2.9	[U]	2.9	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 44/47/65	<2.7	[U]	2.7	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 59/62/75	<2.2	[U]	2.2	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 42	<3.2	[U]	3.2	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 41/71/40	<3.0	[U]	3.0	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 64	<2.2	[U]	2.2	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 72	<2.9	[U]	2.9	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 68	<2.8	[U]	2.8	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 57	<2.9	[U]	2.9	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 58	<2.9	[U]	2.9	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 67	<2.5	[U]	2.5	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 63	<2.8	[U]	2.8	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 61/70/74/76	8.1	M,J,R	2.9	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 66	5.3	M,J	2.8	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 55	<3.0	[U]	3.0	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 56	<3.0	[U]	3.0	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 60	<2.9	[U]	2.9	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 80	<2.4	[U]	2.4	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 79	<2.5	[U]	2.5	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 78	<3.1	[U]	3.1	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 81	<3.6	[U]	3.6	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 77	<3.9	[U]	3.9	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 104	<1.4	[U]	1.4	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 96	<2.1	[U]	2.1	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 103	<2.4	[U]	2.4	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 94	<2.6	[U]	2.6	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 95	6.7	M,J,R	2.7	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 100/93/102/98	<2.3	[U]	2.3	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 88/91	<2.5	[U]	2.5	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 84	2.7	J,R	2.6	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 89	<3.0	[U]	3.0	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 121	<1.7	[U]	1.7	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 92	<2.8	[U]	2.8	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 113/90/101	13.1	[J]	2.1	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 83/99	7.7	M,J	2.5	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 112	<1.7	[U]	1.7	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 109/119/86/97/125/87	8.1	M,J,R	2.0	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 117/116/85/110/115	23.2	M,J	1.9	pg/g wwt	02-NOV-23	18-NOV-23	R5972336

* 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
L2751405-21 15867230620011							
Sampled By: LO/CM on 20-JUN-23							
Matrix: MOSS							
All PCB congeners by GC/HRMS							
PCB 82	<2.8	[U]	2.8	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 111	<1.7	[U]	1.7	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 120	<1.6	[U]	1.6	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 108/124	<2.1	[U]	2.1	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 107	<1.8	[U]	1.8	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 123	<2.4	[U]	2.4	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 106	<2.2	[U]	2.2	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 118	20.7	[J]	2.1	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 122	<2.8	[U]	2.8	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 114	<2.3	[U]	2.3	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 105	11.0	M,J,R	2.1	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 127	<2.0	[U]	2.0	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 126	<2.7	[U]	2.7	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 155	<0.53	[U]	0.53	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 152	<0.84	[U]	0.84	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 150	<0.71	[U]	0.71	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 136	3.10	J,R	0.80	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 145	<0.77	[U]	0.77	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 148	<1.0	[U]	1.0	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 151/135	8.6	M,J	1.1	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 154	<0.79	[U]	0.79	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 144	<1.0	[U]	1.0	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 147/149	18.0	M,J	2.3	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 134/143	<2.9	[U]	2.9	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 139/140	<2.3	[U]	2.3	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 131	<2.8	[U]	2.8	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 142	<3.0	[U]	3.0	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 132	8.6	[J]	2.7	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 133	<2.7	[U]	2.7	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 165	<2.0	[U]	2.0	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 146	3.8	[J]	2.2	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 161	<1.9	[U]	1.9	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 168/153	21.0	J,R	1.9	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 141	4.2	J,R	2.4	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 130	<2.7	M,U	2.7	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 137/164	<2.1	[U]	2.1	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 138/163/129	31.6	M,J	2.4	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 160	<1.7	[U]	1.7	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 158	<1.6	[U]	1.6	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 128/166	5.5	J,R	2.1	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 159	<1.7	[U]	1.7	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 162	<1.8	[U]	1.8	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 167	<1.9	[U]	1.9	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 156/157	3.9	M,J,R	2.7	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 169	<2.2	[U]	2.2	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 188	<1.1	[U]	1.1	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 179	2.6	J,R	1.2	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 184	<1.1	[U]	1.1	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 176	<1.2	[U]	1.2	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 186	<1.2	[U]	1.2	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 178	2.1	J,R	1.7	pg/g wwt	02-NOV-23	18-NOV-23	R5972336

* 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
L2751405-21 15867230620011							
Sampled By: LO/CM on 20-JUN-23							
Matrix: MOSS							
All PCB congeners by GC/HRMS							
PCB 175	<1.6	[U]	1.6	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 187	9.8	J,R	1.5	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 182	<1.5	[U]	1.5	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 183	4.1	M,J	1.4	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 185	<1.7	[U]	1.7	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 174	10.3	M,J	1.6	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 177	5.9	J,R	1.6	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 181	<1.6	[U]	1.6	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 171/173	2.9	M,J,R	1.7	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 172	2.0	M,J,R	1.6	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 192	<1.3	[U]	1.3	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 180/193	25.0	M,J	1.3	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 191	<1.2	[U]	1.2	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 170	11.0	J,R	1.6	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 190	2.4	M,J	1.0	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 189	<1.6	M,U	1.6	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 202	1.04	M,J	0.57	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 201	<0.59	[U]	0.59	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 204	<0.61	[U]	0.61	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 197	<0.62	[U]	0.62	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 200	<0.64	[U]	0.64	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 198/199	4.20	J,R	0.83	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 196	2.00	J,R	0.81	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 203	3.10	M,J,R	0.79	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 195	<1.3	[U]	1.3	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 194	5.6	M,J	1.3	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 205	<1.2	[U]	1.2	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 208	<3.9	[U]	3.9	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 207	<4.2	[U]	4.2	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 206	<8.1	[U]	8.1	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 209	<1.4	[U]	1.4	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
Surrogate: 13C12 PCB 1	23.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 3	28.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 4	24.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 15	29.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 19	31.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 37	23.0	R	5-145	%	02-NOV-23	18-NOV-23	R5972336
Surrogate: 13C12 PCB 54	28.0		5-145	%	02-NOV-23	18-NOV-23	R5972336
Surrogate: 13C12 PCB 81	31.0		10-145	%	02-NOV-23	18-NOV-23	R5972336
Surrogate: 13C12 PCB 77	30.0		10-145	%	02-NOV-23	18-NOV-23	R5972336
Surrogate: 13C12 PCB 104	31.0		10-145	%	02-NOV-23	18-NOV-23	R5972336
Surrogate: 13C12 PCB 123	35.0		10-145	%	02-NOV-23	18-NOV-23	R5972336
Surrogate: 13C12 PCB 118	36.0		10-145	%	02-NOV-23	18-NOV-23	R5972336
Surrogate: 13C12 PCB 114	34.0		10-145	%	02-NOV-23	18-NOV-23	R5972336
Surrogate: 13C12 PCB 105	36.0		10-145	%	02-NOV-23	18-NOV-23	R5972336
Surrogate: 13C12 PCB 126	36.0		10-145	%	02-NOV-23	18-NOV-23	R5972336
Surrogate: 13C12 PCB 155	33.0		10-145	%	02-NOV-23	18-NOV-23	R5972336
Surrogate: 13C12 PCB 167	40.0		10-145	%	02-NOV-23	18-NOV-23	R5972336
Surrogate: 13C12 PCB 156/157	39.0		10-145	%	02-NOV-23	18-NOV-23	R5972336
Surrogate: 13C12 PCB 169	46.0	M,R	10-145	%	02-NOV-23	18-NOV-23	R5972336
Surrogate: 13C12 PCB 188	37.0		10-145	%	02-NOV-23	18-NOV-23	R5972336

* 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
L2751405-21 15867230620011							
Sampled By: LO/CM on 20-JUN-23							
Matrix: MOSS							
All PCB congeners by GC/HRMS							
Surrogate: 13C12 PCB 189	38.0		10-145	%	02-NOV-23	18-NOV-23	R5972336
Surrogate: 13C12 PCB 202	44.0		10-145	%	02-NOV-23	18-NOV-23	R5972336
Surrogate: 13C12 PCB 205	41.0		10-145	%	02-NOV-23	18-NOV-23	R5972336
Surrogate: 13C12 PCB 208	38.0		10-145	%	02-NOV-23	18-NOV-23	R5972336
Surrogate: 13C12 PCB 206	38.0		10-145	%	02-NOV-23	18-NOV-23	R5972336
Surrogate: 13C12 PCB 209	35.0		10-145	%	02-NOV-23	18-NOV-23	R5972336
Surrogate: 13C12 PCB 28	32.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 111	41.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 178	37.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Total MonoCB	0.68	[J]	0.30	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
Total DiCB	13.8	[J]	0.42	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
Total TriCB	11.5	[J]	0.21	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
Total TetraCB	17.6	[J]	1.1	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
Total PentaCB	93.2	[J]	1.4	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
Total HexaCB	108	[J]	0.53	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
Total HeptaCB	78.1	[J]	1.0	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
Total OctaCB	15.9	[J]	0.57	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
Total NonaCB	<3.9	[U]	3.9	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
DecaCB	<1.4	[U]	1.4	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
Total PCB	339	[J]	1.0	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
Lower Bound PCB TEQ (WHO 2005)	0.000621			pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Mid Point PCB TEQ (WHO 2005)	0.170			pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Upper Bound PCB TEQ (WHO 2005)	0.339			pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Dioxins and Furans HR 1613B							
2,3,7,8-TCDD	<0.052	[U]	0.052	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,7,8-PeCDD	<0.086	[U]	0.086	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,4,7,8-HxCDD	<0.078	[U]	0.078	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,6,7,8-HxCDD	<0.075	M,U	0.075	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,7,8,9-HxCDD	<0.075	[U]	0.075	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,4,6,7,8-HpCDD	0.90	J,R	0.24	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
OCDD	6.93	[J]	0.16	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
2,3,7,8-TCDF	0.049	M,J	0.041	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,7,8-PeCDF	<0.066	[U]	0.066	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
2,3,4,7,8-PeCDF	<0.066	[U]	0.066	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,4,7,8-HxCDF	<0.052	[U]	0.052	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,6,7,8-HxCDF	<0.054	[U]	0.054	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
2,3,4,6,7,8-HxCDF	<0.059	[U]	0.059	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,7,8,9-HxCDF	<0.082	[U]	0.082	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,4,6,7,8-HpCDF	0.150	M,J,R	0.073	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
1,2,3,4,7,8,9-HpCDF	<0.10	[U]	0.10	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
OCDF	<0.41	[U]	0.41	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total-TCDD	<0.052	[U]	0.052	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total TCDD # Homologues	0				02-NOV-23	12-NOV-23	R5972336
Total-PeCDD	<0.086	[U]	0.086	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total PeCDD # Homologues	0				02-NOV-23	12-NOV-23	R5972336
Total-HxCDD	<0.078	[U]	0.078	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total HxCDD # Homologues	0				02-NOV-23	12-NOV-23	R5972336
Total-HpCDD	<0.24	[U]	0.24	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total HpCDD # Homologues	0				02-NOV-23	12-NOV-23	R5972336
Total-TCDF	0.049		0.041	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total TCDF # Homologues	1				02-NOV-23	12-NOV-23	R5972336

* 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
L2751405-21 15867230620011							
Sampled By: LO/CM on 20-JUN-23							
Matrix: MOSS							
Dioxins and Furans HR 1613B							
Total-PeCDF	<0.066	[U]	0.066	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total PeCDF # Homologues	0				02-NOV-23	12-NOV-23	R5972336
Total-HxCDF	0.103		0.082	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total HxCDF # Homologues	1				02-NOV-23	12-NOV-23	R5972336
Total-HpCDF	<0.10	[U]	0.10	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Total HpCDF # Homologues	0				02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-2,3,7,8-TCDD	85.0		25-164	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,7,8-PeCDD	79.0		25-181	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,4,7,8-HxCDD	104.0		32-141	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,6,7,8-HxCDD	104.0		28-130	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,4,6,7,8-HpCDD	82.0		23-140	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-OCDD	52.0		17-157	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-2,3,7,8-TCDF	86.0		24-169	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,7,8-PeCDF	91.0		21-192	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-2,3,4,7,8-PeCDF	79.0		21-178	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,4,7,8-HxCDF	119.0		26-152	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,6,7,8-HxCDF	117.0		26-123	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-2,3,4,6,7,8-HxCDF	114.0		29-147	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,7,8,9-HxCDF	102.0		28-136	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,4,6,7,8-HpCDF	86.0		28-143	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 13C12-1,2,3,4,7,8,9-HpCDF	79.0		26-138	%	02-NOV-23	12-NOV-23	R5972336
Surrogate: 37Cl4-2,3,7,8-TCDD (Cleanup)	83.0		31-197	%	02-NOV-23	12-NOV-23	R5972336
Lower Bound PCDD/F TEQ (WHO 2005)	0.00695		0	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Mid Point PCDD/F TEQ (WHO 2005)	0.122		0	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
Upper Bound PCDD/F TEQ (WHO 2005)	0.226		0	pg/g wwt	02-NOV-23	12-NOV-23	R5972336
L2751405-22 15867230620111							
Sampled By: LO/CM on 20-JUN-23							
Matrix: LAB TEA							
Miscellaneous Parameters							
% Moisture	50.5		0.10	%	02-AUG-23	03-AUG-23	R5965039
% Moisture	59.7		0.50	%		12-JUL-23	R5963338
All PCB congeners by GC/HRMS							
PCB 1	5.1	M,[J],[B]	2.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 2	6.2	[J],R	2.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 3	8.8	[J],R	1.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 4	<13	[U]	13	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 10	<5.4	[U]	5.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 9	<5.5	[U]	5.5	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 7	<5.4	[U]	5.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 6	<5.7	[U]	5.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 5	<5.4	[U]	5.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 8	21.0	M,[J],R	5.5	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 14	<10	[U]	10	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 11	90	[B]	10	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 13/12	9.3	M,[J],R	8.5	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 15	<6.9	[U]	6.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 19	<4.4	[U]	4.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 30/18	9.5	[J],R	4.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 17	<4.6	[U]	4.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 27	<3.3	[U]	3.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 24	<3.7	[U]	3.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736

* 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
L2751405-22 15867230620111							
Sampled By: LO/CM on 20-JUN-23							
Matrix: LAB TEA							
All PCB congeners by GC/HRMS							
PCB 16	<5.1	[U]	5.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 32	3.4	M,[J],R	3.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 34	<5.6	[U]	5.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 23	<5.4	[U]	5.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 29/26	<5.0	[U]	5.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 25	<4.7	[U]	4.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 31	24.8	[J],[B]	5.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 28/20	21.0	[J],R	4.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 21/33	11.0	[J],R	5.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 22	6.9	M,[J],R	5.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 36	<4.7	[U]	4.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 39	<5.3	[U]	5.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 38	24.4	[J]	5.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 35	<5.6	[U]	5.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 37	7.2	[J],R	4.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 54	<2.6	[U]	2.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 50/53	<5.0	[U]	5.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 45/51	<5.2	[U]	5.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 46	<5.6	[U]	5.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 52	20.0	[J],R	5.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 73	<3.4	[U]	3.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 43	<6.2	[U]	6.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 69/49	8.1	M,[J],[B]	4.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 48	<5.0	[U]	5.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 44/47/65	30.0	[J]	4.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 59/62/75	<3.7	M,[U]	3.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 42	<5.4	[U]	5.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 41/71/40	12.0	M,[J],R	5.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 64	3.8	[J],R	3.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 72	<3.0	[U]	3.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 68	<3.1	[U]	3.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 57	<3.4	[U]	3.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 58	<3.2	[U]	3.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 67	<2.8	[U]	2.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 63	<3.3	[U]	3.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 61/70/74/76	19.0	M,[J],R	3.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 66	13.2	[J]	3.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 55	<3.4	[U]	3.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 56	8.9	[J],R	3.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 60	3.6	M,[J],R	3.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 80	<2.7	[U]	2.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 79	<2.9	[U]	2.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 78	<3.7	[U]	3.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 81	<3.1	[U]	3.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 77	4.3	[J],R	3.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 104	<1.9	[U]	1.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 96	<2.4	[U]	2.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 103	<4.9	[U]	4.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 94	<5.1	[U]	5.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 95	12.0	M,[J],R	5.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 100/93/102/98	<4.6	[U]	4.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736

* 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
L2751405-22 15867230620111							
Sampled By: LO/CM on 20-JUN-23							
Matrix: LAB TEA							
All PCB congeners by GC/HRMS							
PCB 88/91	<5.0	[U]	5.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 84	<5.3	[U]	5.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 89	<6.3	[U]	6.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 121	<3.4	[U]	3.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 92	<5.8	[U]	5.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 113/90/101	26.0	[J],R	4.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 83/99	17.7	[J],[B]	5.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 112	<3.4	[U]	3.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 109/119/86/97/125/87	13.0	M,[J],R	3.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 117/116/85/110/115	38.0	M,[J],R	4.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 82	<6.1	[U]	6.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 111	<3.5	[U]	3.5	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 120	<3.7	[U]	3.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 108/124	<3.2	[U]	3.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 107	<2.6	[U]	2.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 123	<3.2	[U]	3.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 106	<3.9	[U]	3.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 118	27.4	M,[J]	3.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 122	<4.6	[U]	4.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 114	<3.2	[U]	3.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 105	12.4	M,[J]	3.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 127	<3.2	[U]	3.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 126	<3.3	[U]	3.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 155	<1.4	[U]	1.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 152	<1.7	[U]	1.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 150	<1.6	[U]	1.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 136	<1.9	[U]	1.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 145	<1.8	[U]	1.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 148	<2.6	[U]	2.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 151/135	11.0	M,[J],R	2.5	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 154	<1.9	[U]	1.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 144	<2.6	[U]	2.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 147/149	17.0	M,[J]	3.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 134/143	<4.3	[U]	4.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 139/140	<3.5	[U]	3.5	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 131	<4.4	[U]	4.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 142	<4.8	[U]	4.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 132	9.1	[J],R	4.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 133	<4.3	[U]	4.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 165	<3.0	[U]	3.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 146	5.3	[J]	3.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 161	<3.0	[U]	3.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 168/153	28.0	[J],R	3.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 141	5.7	[J],R	3.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 130	<4.4	[U]	4.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 137/164	3.4	M,[J],R	3.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 138/163/129	30.0	[J],R	3.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 160	<3.1	[U]	3.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 158	3.6	M,[J],R	2.5	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 128/166	7.0	[J],R	3.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 159	<2.7	[U]	2.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736

* 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
L2751405-22 15867230620111							
Sampled By: LO/CM on 20-JUN-23							
Matrix: LAB TEA							
All PCB congeners by GC/HRMS							
PCB 162	<2.9	[U]	2.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 167	<2.8	[U]	2.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 156/157	4.4	[J]	3.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 169	<2.9	[U]	2.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 188	<1.8	[U]	1.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 179	4.4	[J]	2.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 184	<1.8	[U]	1.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 176	<2.0	M,[U]	2.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 186	<2.0	[U]	2.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 178	<2.9	[U]	2.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 175	<2.7	[U]	2.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 187	12.0	[J]	2.5	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 182	<2.5	[U]	2.5	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 183	6.1	M,[J]	2.5	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 185	<2.7	[U]	2.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 174	12.8	M,[J]	2.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 177	4.5	[J]	2.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 181	<2.7	[U]	2.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 171/173	<2.9	[U]	2.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 172	<2.8	[U]	2.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 192	<2.3	[U]	2.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 180/193	15.5	[J]	2.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 191	<2.1	[U]	2.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 170	5.0	M,[J],R	3.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 190	<1.9	[U]	1.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 189	<2.4	[U]	2.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 202	<1.9	[U]	1.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 201	<13	[U]	13	pg/g wwt	25-AUG-23	07-SEP-23	R5967736
PCB 204	<2.0	[U]	2.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 197	<1.9	[U]	1.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 200	<2.2	[U]	2.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 198/199	10.2	M,[J]	2.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 196	<2.7	[U]	2.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 203	<2.6	[U]	2.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 195	<32	[U]	32	pg/g wwt	25-AUG-23	07-SEP-23	R5967736
PCB 194	4.7	[J],R	2.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 205	<2.3	[U]	2.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 208	<8.1	[U]	8.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 207	<9.2	[U]	9.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 206	<14	[U]	14	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 209	<21	[U]	21	pg/g wwt	25-AUG-23	07-SEP-23	R5967736
Surrogate: 13C12 PCB 1	20.0		5-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 3	25.0		5-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 4	19.0		5-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 15	23.0		5-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 19	18.0		5-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 37	25.0		5-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 54	18.0		5-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 81	27.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 77	26.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 104	21.0		10-145	%	25-AUG-23	02-SEP-23	R5967736

* 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
L2751405-22 15867230620111							
Sampled By: LO/CM on 20-JUN-23							
Matrix: LAB TEA							
All PCB congeners by GC/HRMS							
Surrogate: 13C12 PCB 123	26.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 118	26.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 114	25.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 105	27.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 126	27.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 155	22.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 167	27.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 156/157	26.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 169	27.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 188	24.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 189	23.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 202	23.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 205	25.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 208	24.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 206	24.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 209	26.0		10-145	%	25-AUG-23	07-SEP-23	R5967736
Surrogate: 13C12 PCB 28	31.0		5-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 111	35.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 178	34.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Total MonoCB	20.1	[J]	1.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Total DiCB	120	[J]	5.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Total TriCB	108	[J]	3.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Total TetraCB	123	[J]	2.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Total PentaCB	147	[J]	1.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Total HexaCB	125	[J]	1.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Total HeptaCB	60.3	[J]	1.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Total OctaCB	14.9	[J]	1.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Total NonaCB	<8.1	[U]	8.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
DecaCB	<21	[U]	21	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Total PCB	717	[J]	1.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Lower Bound PCB TEQ (WHO 2005)	0.00133			pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Mid Point PCB TEQ (WHO 2005)	0.211			pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Upper Bound PCB TEQ (WHO 2005)	0.420			pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Dioxins and Furans HR 1613B							
2,3,7,8-TCDD	<5.7	[U]	5.7	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,7,8-PeCDD	<6.3	[U]	6.3	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,4,7,8-HxCDD	<5.9	[U]	5.9	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,6,7,8-HxCDD	<6.2	[U]	6.2	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,7,8,9-HxCDD	<5.9	[U]	5.9	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,4,6,7,8-HpCDD	<5.2	[U]	5.2	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
OCDD	<14	[U]	14	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
2,3,7,8-TCDF	<3.6	[U]	3.6	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,7,8-PeCDF	<3.6	[U]	3.6	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
2,3,4,7,8-PeCDF	<3.4	[U]	3.4	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,4,7,8-HxCDF	<3.4	[U]	3.4	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,6,7,8-HxCDF	<3.0	M,U	3.0	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
2,3,4,6,7,8-HxCDF	<3.4	[U]	3.4	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,7,8,9-HxCDF	<4.7	[U]	4.7	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,4,6,7,8-HpCDF	<5.1	[U]	5.1	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,4,7,8,9-HpCDF	<7.2	[U]	7.2	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
OCDF	<11	[U]	11	pg/g wwt	02-AUG-23	20-AUG-23	R5967776

* 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
L2751405-22 15867230620111							
Sampled By: LO/CM on 20-JUN-23							
Matrix: LAB TEA							
Dioxins and Furans HR 1613B							
Total-TCDD	<5.7	[U]	5.7	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Total TCDD # Homologues	0				02-AUG-23	20-AUG-23	R5967776
Total-PeCDD	<6.3	[U]	6.3	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Total PeCDD # Homologues	0				02-AUG-23	20-AUG-23	R5967776
Total-HxCDD	<6.2	[U]	6.2	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Total HxCDD # Homologues	0				02-AUG-23	20-AUG-23	R5967776
Total-HpCDD	<5.2	[U]	5.2	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Total HpCDD # Homologues	0				02-AUG-23	20-AUG-23	R5967776
Total-TCDF	<3.6	[U]	3.6	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Total TCDF # Homologues	0				02-AUG-23	20-AUG-23	R5967776
Total-PeCDF	<3.6	[U]	3.6	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Total PeCDF # Homologues	0				02-AUG-23	20-AUG-23	R5967776
Total-HxCDF	<4.7	[U]	4.7	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Total HxCDF # Homologues	0				02-AUG-23	20-AUG-23	R5967776
Total-HpCDF	<7.2	[U]	7.2	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Total HpCDF # Homologues	0				02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-2,3,7,8-TCDD	19.0	G	25-164	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-1,2,3,7,8-PeCDD	20.0	G	25-181	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-1,2,3,4,7,8-HxCDD	23.0	G	32-141	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-1,2,3,6,7,8-HxCDD	21.0	G	28-130	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-1,2,3,4,6,7,8-HpCDD	24.0		23-140	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-OCDD	19.0		17-157	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-2,3,7,8-TCDF	22.0	G	24-169	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-1,2,3,7,8-PeCDF	27.0		21-192	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-2,3,4,7,8-PeCDF	24.0		21-178	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-1,2,3,4,7,8-HxCDF	27.0		26-152	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-1,2,3,6,7,8-HxCDF	28.0		26-123	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-2,3,4,6,7,8-HxCDF	28.0	G	29-147	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-1,2,3,7,8,9-HxCDF	24.0	G	28-136	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-1,2,3,4,6,7,8-HpCDF	25.0	G	28-143	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-1,2,3,4,7,8,9-HpCDF	25.0	G	26-138	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 37Cl4-2,3,7,8-TCDD (Cleanup)	26.0	G	31-197	%	02-AUG-23	20-AUG-23	R5967776
Lower Bound PCDD/F TEQ (WHO 2005)	0.00		0	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Mid Point PCDD/F TEQ (WHO 2005)	8.46		0	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Upper Bound PCDD/F TEQ (WHO 2005)	16.9		0	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Note: Sample is outside method recovery criteria for select labelled targets, native results are quantified using isotope dilution and are inherently recovery corrected.							
L2751405-24 15867230619302							
Sampled By: LO/CM on 19-JUN-23							
Matrix: BLANK							
Miscellaneous Parameters							
% Moisture	<0.25		0.25	%		14-JUL-23	R5963677
PCBs							
Aroclor 1016	<0.010		0.010	mg/kg		14-JUL-23	R5964096
Aroclor 1221	<0.010		0.010	mg/kg		14-JUL-23	R5964096
Aroclor 1232	<0.010		0.010	mg/kg		14-JUL-23	R5964096
Aroclor 1242	<0.010		0.010	mg/kg		14-JUL-23	R5964096
Aroclor 1248	<0.010		0.010	mg/kg		14-JUL-23	R5964096
Aroclor 1254	<0.010		0.010	mg/kg		14-JUL-23	R5964096
Aroclor 1260	<0.010		0.010	mg/kg		14-JUL-23	R5964096

* 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
L2751405-24 15867230619302							
Sampled By: LO/CM on 19-JUN-23							
Matrix: BLANK							
PCBs							
Aroclor 1262	<0.010		0.010	mg/kg		14-JUL-23	R5964096
Aroclor 1268	<0.010		0.010	mg/kg		14-JUL-23	R5964096
Total PCBs	<0.050		0.050	mg/kg		14-JUL-23	R5964096
Surrogate: Decachlorobiphenyl	108.3		65-130	%		14-JUL-23	R5964096
L2751405-25 15867230620303							
Sampled By: LO/CM on 20-JUN-23							
Matrix: BLANK							
Miscellaneous Parameters							
% Moisture	<0.25		0.25	%		14-JUL-23	R5963677
PCBs							
Aroclor 1016	<0.010		0.010	mg/kg		14-JUL-23	R5964096
Aroclor 1221	<0.010		0.010	mg/kg		14-JUL-23	R5964096
Aroclor 1232	<0.010		0.010	mg/kg		14-JUL-23	R5964096
Aroclor 1242	<0.010		0.010	mg/kg		14-JUL-23	R5964096
Aroclor 1248	<0.010		0.010	mg/kg		14-JUL-23	R5964096
Aroclor 1254	<0.010		0.010	mg/kg		14-JUL-23	R5964096
Aroclor 1260	<0.010		0.010	mg/kg		14-JUL-23	R5964096
Aroclor 1262	<0.010		0.010	mg/kg		14-JUL-23	R5964096
Aroclor 1268	<0.010		0.010	mg/kg		14-JUL-23	R5964096
Total PCBs	<0.050		0.050	mg/kg		14-JUL-23	R5964096
Surrogate: Decachlorobiphenyl	126.0		65-130	%		14-JUL-23	R5964096
L2751405-27 15867230619201							
Sampled By: LO/CM on 19-JUN-23							
Matrix: MOSS BAG							
Miscellaneous Parameters							
% Moisture	83.1		0.50	%		12-JUL-23	R5963338
Mercury (Hg)-Total	0.0499		0.0050	mg/kg	18-JUL-23	25-JUL-23	R5964336
Silver (Ag)-Total	0.0089		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Sulfur (S)-Total	780		100	mg/kg	18-JUL-23	19-JUL-23	R5964066
Titanium (Ti)-Total	9.61		0.25	mg/kg	18-JUL-23	19-JUL-23	R5964066
Metals in Tissue by CRC ICPMS (DRY)							
Aluminum (Al)-Total	279		2.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Antimony (Sb)-Total	0.067		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Arsenic (As)-Total	0.323		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Barium (Ba)-Total	4.98		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Beryllium (Be)-Total	<0.010		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Bismuth (Bi)-Total	0.010		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Boron (B)-Total	<1.0		1.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cadmium (Cd)-Total	0.0161		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Calcium (Ca)-Total	157		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cesium (Cs)-Total	0.0257		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Chromium (Cr)-Total	0.758		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cobalt (Co)-Total	0.182		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Copper (Cu)-Total	1.77		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Iron (Fe)-Total	439		3.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Lead (Pb)-Total	0.685		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Lithium (Li)-Total	<0.50		0.50	mg/kg	18-JUL-23	19-JUL-23	R5964066
Magnesium (Mg)-Total	68.5		2.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Manganese (Mn)-Total	13.0		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Molybdenum (Mo)-Total	0.813		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066

* 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
L2751405-27 15867230619201							
Sampled By: LO/CM on 19-JUN-23							
Matrix: MOSS BAG							
Metals in Tissue by CRC ICPMS (DRY)							
Nickel (Ni)-Total	0.42		0.20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Phosphorus (P)-Total	258		10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Potassium (K)-Total	119		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Rubidium (Rb)-Total	0.322		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Selenium (Se)-Total	0.074		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Sodium (Na)-Total	44		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Strontium (Sr)-Total	0.730		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Tellurium (Te)-Total	<0.020		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Thallium (Tl)-Total	0.0026		0.0020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Tin (Sn)-Total	0.13		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Uranium (U)-Total	0.0402		0.0020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Vanadium (V)-Total	0.61		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Zinc (Zn)-Total	4.89		0.50	mg/kg	18-JUL-23	19-JUL-23	R5964066
Zirconium (Zr)-Total	0.65		0.20	mg/kg	18-JUL-23	19-JUL-23	R5964066
L2751405-28 15867230619202							
Sampled By: LO/CM on 19-JUN-23							
Matrix: MOSS BAG							
Miscellaneous Parameters							
% Moisture	87.7		0.50	%		11-JUL-23	R5962897
Mercury (Hg)-Total	0.0543		0.0050	mg/kg	18-JUL-23	25-JUL-23	R5964336
Silver (Ag)-Total	0.0100		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Sulfur (S)-Total	670		100	mg/kg	18-JUL-23	19-JUL-23	R5964066
Titanium (Ti)-Total	9.78		0.25	mg/kg	18-JUL-23	19-JUL-23	R5964066
Metals in Tissue by CRC ICPMS (DRY)							
Aluminum (Al)-Total	310		2.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Antimony (Sb)-Total	0.071		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Arsenic (As)-Total	0.298		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Barium (Ba)-Total	5.76		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Beryllium (Be)-Total	<0.010		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Bismuth (Bi)-Total	0.024		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Boron (B)-Total	<1.0		1.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cadmium (Cd)-Total	0.0281		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Calcium (Ca)-Total	341		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cesium (Cs)-Total	0.0356		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Chromium (Cr)-Total	0.741		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cobalt (Co)-Total	0.165		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Copper (Cu)-Total	1.90		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Iron (Fe)-Total	406		3.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Lead (Pb)-Total	0.795		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Lithium (Li)-Total	<0.50		0.50	mg/kg	18-JUL-23	19-JUL-23	R5964066
Magnesium (Mg)-Total	122		2.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Manganese (Mn)-Total	25.5		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Molybdenum (Mo)-Total	0.396		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Nickel (Ni)-Total	0.58		0.20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Phosphorus (P)-Total	250		10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Potassium (K)-Total	296		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Rubidium (Rb)-Total	1.19		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Selenium (Se)-Total	0.082		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Sodium (Na)-Total	76		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Strontium (Sr)-Total	1.15		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Tellurium (Te)-Total	<0.020		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066

* 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
L2751405-28 15867230619202							
Sampled By: LO/CM on 19-JUN-23							
Matrix: MOSS BAG							
Metals in Tissue by CRC ICPMS (DRY)							
Thallium (Tl)-Total	0.0037		0.0020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Tin (Sn)-Total	0.41		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Uranium (U)-Total	0.0406		0.0020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Vanadium (V)-Total	0.72		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Zinc (Zn)-Total	8.08		0.50	mg/kg	18-JUL-23	19-JUL-23	R5964066
Zirconium (Zr)-Total	0.65		0.20	mg/kg	18-JUL-23	19-JUL-23	R5964066
L2751405-29 15867230619203							
Sampled By: LO/CM on 19-JUN-23							
Matrix: MOSS BAG							
Miscellaneous Parameters							
% Moisture	87.8		0.50	%		11-JUL-23	R5962897
Mercury (Hg)-Total	0.0560		0.0050	mg/kg	18-JUL-23	25-JUL-23	R5964336
Silver (Ag)-Total	0.0110		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Sulfur (S)-Total	660		100	mg/kg	18-JUL-23	19-JUL-23	R5964066
Titanium (Ti)-Total	8.85		0.25	mg/kg	18-JUL-23	19-JUL-23	R5964066
Metals in Tissue by CRC ICPMS (DRY)							
Aluminum (Al)-Total	273		2.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Antimony (Sb)-Total	0.072		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Arsenic (As)-Total	0.282		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Barium (Ba)-Total	4.97		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Beryllium (Be)-Total	<0.010		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Bismuth (Bi)-Total	0.029		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Boron (B)-Total	<1.0		1.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cadmium (Cd)-Total	0.0322		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Calcium (Ca)-Total	263		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cesium (Cs)-Total	0.0322		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Chromium (Cr)-Total	0.638		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cobalt (Co)-Total	0.154		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Copper (Cu)-Total	1.96		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Iron (Fe)-Total	354		3.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Lead (Pb)-Total	0.828		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Lithium (Li)-Total	<0.50		0.50	mg/kg	18-JUL-23	19-JUL-23	R5964066
Magnesium (Mg)-Total	85.3		2.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Manganese (Mn)-Total	15.1		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Molybdenum (Mo)-Total	0.402		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Nickel (Ni)-Total	0.44		0.20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Phosphorus (P)-Total	227		10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Potassium (K)-Total	172		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Rubidium (Rb)-Total	0.563		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Selenium (Se)-Total	0.076		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Sodium (Na)-Total	52		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Strontium (Sr)-Total	0.930		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Tellurium (Te)-Total	<0.020		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Thallium (Tl)-Total	0.0033		0.0020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Tin (Sn)-Total	0.26		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Uranium (U)-Total	0.0335		0.0020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Vanadium (V)-Total	0.61		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Zinc (Zn)-Total	7.51		0.50	mg/kg	18-JUL-23	19-JUL-23	R5964066
Zirconium (Zr)-Total	0.56		0.20	mg/kg	18-JUL-23	19-JUL-23	R5964066

* 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
L2751405-30 15867230619204							
Sampled By: LO/CM on 19-JUN-23							
Matrix: MOSS BAG							
Miscellaneous Parameters							
% Moisture	88.3		0.50	%		11-JUL-23	R5962897
Mercury (Hg)-Total	0.135		0.0050	mg/kg	18-JUL-23	25-JUL-23	R5964336
Silver (Ag)-Total	0.0703		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Sulfur (S)-Total	620		100	mg/kg	18-JUL-23	19-JUL-23	R5964066
Titanium (Ti)-Total	20.7		0.25	mg/kg	18-JUL-23	19-JUL-23	R5964066
Metals in Tissue by CRC ICPMS (DRY)							
Aluminum (Al)-Total	472		2.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Antimony (Sb)-Total	0.275		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Arsenic (As)-Total	0.660		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Barium (Ba)-Total	16.0		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Beryllium (Be)-Total	0.014		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Bismuth (Bi)-Total	0.562		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Boron (B)-Total	<1.0		1.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cadmium (Cd)-Total	0.151		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Calcium (Ca)-Total	722		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cesium (Cs)-Total	0.121		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Chromium (Cr)-Total	1.58		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cobalt (Co)-Total	0.337		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Copper (Cu)-Total	9.85		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Iron (Fe)-Total	690		3.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Lead (Pb)-Total	10.3		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Lithium (Li)-Total	<0.50		0.50	mg/kg	18-JUL-23	19-JUL-23	R5964066
Magnesium (Mg)-Total	158		2.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Manganese (Mn)-Total	20.0		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Molybdenum (Mo)-Total	2.62		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Nickel (Ni)-Total	1.17		0.20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Phosphorus (P)-Total	243		10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Potassium (K)-Total	244		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Rubidium (Rb)-Total	0.622		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Selenium (Se)-Total	0.109		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Sodium (Na)-Total	287		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Strontium (Sr)-Total	2.44		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Tellurium (Te)-Total	<0.020		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Thallium (Tl)-Total	0.0096		0.0020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Tin (Sn)-Total	0.96		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Uranium (U)-Total	0.0518		0.0020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Vanadium (V)-Total	1.16		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Zinc (Zn)-Total	92.6		0.50	mg/kg	18-JUL-23	19-JUL-23	R5964066
Zirconium (Zr)-Total	0.83		0.20	mg/kg	18-JUL-23	19-JUL-23	R5964066
L2751405-31 15867230619205							
Sampled By: LO/CM on 19-JUN-23							
Matrix: MOSS BAG							
Miscellaneous Parameters							
% Moisture	88.8		0.50	%		11-JUL-23	R5962897
Mercury (Hg)-Total	0.0720		0.0050	mg/kg	18-JUL-23	25-JUL-23	R5964336
Silver (Ag)-Total	0.0140		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Sulfur (S)-Total	670		100	mg/kg	18-JUL-23	19-JUL-23	R5964066
Titanium (Ti)-Total	11.4		0.25	mg/kg	18-JUL-23	19-JUL-23	R5964066
Metals in Tissue by CRC ICPMS (DRY)							
Aluminum (Al)-Total	361		2.0	mg/kg	18-JUL-23	19-JUL-23	R5964066

* 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
L2751405-31 15867230619205							
Sampled By: LO/CM on 19-JUN-23							
Matrix: MOSS BAG							
Metals in Tissue by CRC ICPMS (DRY)							
Antimony (Sb)-Total	0.096		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Arsenic (As)-Total	0.309		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Barium (Ba)-Total	8.27		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Beryllium (Be)-Total	0.010		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Bismuth (Bi)-Total	0.072		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Boron (B)-Total	<1.0		1.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cadmium (Cd)-Total	0.0605		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Calcium (Ca)-Total	397		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cesium (Cs)-Total	0.0429		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Chromium (Cr)-Total	0.814		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cobalt (Co)-Total	0.225		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Copper (Cu)-Total	2.44		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Iron (Fe)-Total	466		3.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Lead (Pb)-Total	1.30		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Lithium (Li)-Total	<0.50		0.50	mg/kg	18-JUL-23	19-JUL-23	R5964066
Magnesium (Mg)-Total	135		2.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Manganese (Mn)-Total	20.2		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Molybdenum (Mo)-Total	0.455		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Nickel (Ni)-Total	0.67		0.20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Phosphorus (P)-Total	267		10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Potassium (K)-Total	240		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Rubidium (Rb)-Total	0.583		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Selenium (Se)-Total	0.071		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Sodium (Na)-Total	65		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Strontium (Sr)-Total	1.48		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Tellurium (Te)-Total	<0.020		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Thallium (Tl)-Total	0.0048		0.0020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Tin (Sn)-Total	0.30		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Uranium (U)-Total	0.0404		0.0020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Vanadium (V)-Total	0.84		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Zinc (Zn)-Total	63.4		0.50	mg/kg	18-JUL-23	19-JUL-23	R5964066
Zirconium (Zr)-Total	0.66		0.20	mg/kg	18-JUL-23	19-JUL-23	R5964066
L2751405-32 15867230619206							
Sampled By: LO/CM on 19-JUN-23							
Matrix: MOSS BAG							
Miscellaneous Parameters							
% Moisture	88.4		0.50	%		11-JUL-23	R5962897
Mercury (Hg)-Total	0.0805		0.0050	mg/kg	18-JUL-23	25-JUL-23	R5964336
Silver (Ag)-Total	0.0161		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Sulfur (S)-Total	650		100	mg/kg	18-JUL-23	19-JUL-23	R5964066
Titanium (Ti)-Total	14.9		0.25	mg/kg	18-JUL-23	19-JUL-23	R5964066
Metals in Tissue by CRC ICPMS (DRY)							
Aluminum (Al)-Total	403		2.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Antimony (Sb)-Total	0.089		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Arsenic (As)-Total	0.432		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Barium (Ba)-Total	8.65		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Beryllium (Be)-Total	0.013		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Bismuth (Bi)-Total	0.059		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Boron (B)-Total	<1.0		1.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cadmium (Cd)-Total	0.0503		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Calcium (Ca)-Total	446		20	mg/kg	18-JUL-23	19-JUL-23	R5964066

* 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
L2751405-32 15867230619206							
Sampled By: LO/CM on 19-JUN-23							
Matrix: MOSS BAG							
Metals in Tissue by CRC ICPMS (DRY)							
Cesium (Cs)-Total	0.0507		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Chromium (Cr)-Total	1.04		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cobalt (Co)-Total	0.290		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Copper (Cu)-Total	3.50		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Iron (Fe)-Total	694		3.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Lead (Pb)-Total	1.60		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Lithium (Li)-Total	<0.50		0.50	mg/kg	18-JUL-23	19-JUL-23	R5964066
Magnesium (Mg)-Total	145		2.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Manganese (Mn)-Total	20.3		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Molybdenum (Mo)-Total	0.532		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Nickel (Ni)-Total	1.01		0.20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Phosphorus (P)-Total	289		10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Potassium (K)-Total	132		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Rubidium (Rb)-Total	0.543		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Selenium (Se)-Total	0.090		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Sodium (Na)-Total	53		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Strontium (Sr)-Total	1.62		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Tellurium (Te)-Total	<0.020		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Thallium (Tl)-Total	0.0066		0.0020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Tin (Sn)-Total	0.23		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Uranium (U)-Total	0.0488		0.0020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Vanadium (V)-Total	1.03		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Zinc (Zn)-Total	37.2		0.50	mg/kg	18-JUL-23	19-JUL-23	R5964066
Zirconium (Zr)-Total	0.77		0.20	mg/kg	18-JUL-23	19-JUL-23	R5964066
L2751405-33 15867230619207							
Sampled By: LO/CM on 19-JUN-23							
Matrix: MOSS BAG							
Miscellaneous Parameters							
% Moisture	90.2		0.50	%		11-JUL-23	R5962897
Mercury (Hg)-Total	0.0652		0.0050	mg/kg	18-JUL-23	25-JUL-23	R5964336
Silver (Ag)-Total	0.0129		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Sulfur (S)-Total	670		100	mg/kg	18-JUL-23	19-JUL-23	R5964066
Titanium (Ti)-Total	11.3		0.25	mg/kg	18-JUL-23	19-JUL-23	R5964066
Metals in Tissue by CRC ICPMS (DRY)							
Aluminum (Al)-Total	380		2.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Antimony (Sb)-Total	0.085		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Arsenic (As)-Total	0.325		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Barium (Ba)-Total	8.54		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Beryllium (Be)-Total	<0.010		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Bismuth (Bi)-Total	0.023		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Boron (B)-Total	<1.0		1.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cadmium (Cd)-Total	0.0455		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Calcium (Ca)-Total	670		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cesium (Cs)-Total	0.0442		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Chromium (Cr)-Total	0.808		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cobalt (Co)-Total	0.197		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Copper (Cu)-Total	2.18		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Iron (Fe)-Total	447		3.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Lead (Pb)-Total	1.16		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Lithium (Li)-Total	<0.50		0.50	mg/kg	18-JUL-23	19-JUL-23	R5964066
Magnesium (Mg)-Total	203		2.0	mg/kg	18-JUL-23	19-JUL-23	R5964066

* 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
L2751405-33 15867230619207							
Sampled By: LO/CM on 19-JUN-23							
Matrix: MOSS BAG							
Metals in Tissue by CRC ICPMS (DRY)							
Manganese (Mn)-Total	61.3		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Molybdenum (Mo)-Total	0.457		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Nickel (Ni)-Total	0.73		0.20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Phosphorus (P)-Total	255		10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Potassium (K)-Total	395		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Rubidium (Rb)-Total	1.09		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Selenium (Se)-Total	0.087		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Sodium (Na)-Total	85		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Strontium (Sr)-Total	1.93		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Tellurium (Te)-Total	<0.020		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Thallium (Tl)-Total	0.0054		0.0020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Tin (Sn)-Total	0.23		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Uranium (U)-Total	0.0423		0.0020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Vanadium (V)-Total	0.87		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Zinc (Zn)-Total	12.1		0.50	mg/kg	18-JUL-23	19-JUL-23	R5964066
Zirconium (Zr)-Total	0.74		0.20	mg/kg	18-JUL-23	19-JUL-23	R5964066
L2751405-34 15867230619208							
Sampled By: LO/CM on 19-JUN-23							
Matrix: MOSS BAG							
Miscellaneous Parameters							
% Moisture	91.1		0.50	%		11-JUL-23	R5962897
Mercury (Hg)-Total	0.0584		0.0050	mg/kg	18-JUL-23	25-JUL-23	R5964336
Silver (Ag)-Total	0.0100		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Sulfur (S)-Total	690		100	mg/kg	18-JUL-23	19-JUL-23	R5964066
Titanium (Ti)-Total	11.8		0.25	mg/kg	18-JUL-23	19-JUL-23	R5964066
Metals in Tissue by CRC ICPMS (DRY)							
Aluminum (Al)-Total	396		2.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Antimony (Sb)-Total	0.057		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Arsenic (As)-Total	0.273		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Barium (Ba)-Total	9.77		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Beryllium (Be)-Total	0.010		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Bismuth (Bi)-Total	0.013		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Boron (B)-Total	<1.0		1.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cadmium (Cd)-Total	0.0445		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Calcium (Ca)-Total	917		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cesium (Cs)-Total	0.0441		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Chromium (Cr)-Total	0.763		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cobalt (Co)-Total	0.201		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Copper (Cu)-Total	1.93		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Iron (Fe)-Total	436		3.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Lead (Pb)-Total	0.706		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Lithium (Li)-Total	<0.50		0.50	mg/kg	18-JUL-23	19-JUL-23	R5964066
Magnesium (Mg)-Total	266		2.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Manganese (Mn)-Total	81.6		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Molybdenum (Mo)-Total	0.390		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Nickel (Ni)-Total	0.74		0.20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Phosphorus (P)-Total	238		10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Potassium (K)-Total	440		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Rubidium (Rb)-Total	1.26		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Selenium (Se)-Total	0.083		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Sodium (Na)-Total	40		20	mg/kg	18-JUL-23	19-JUL-23	R5964066

* 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
L2751405-34 15867230619208							
Sampled By: LO/CM on 19-JUN-23							
Matrix: MOSS BAG							
Metals in Tissue by CRC ICPMS (DRY)							
Strontium (Sr)-Total	2.51		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Tellurium (Te)-Total	<0.020		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Thallium (Tl)-Total	0.0054		0.0020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Tin (Sn)-Total	0.43		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Uranium (U)-Total	0.0419		0.0020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Vanadium (V)-Total	0.88		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Zinc (Zn)-Total	10.4		0.50	mg/kg	18-JUL-23	19-JUL-23	R5964066
Zirconium (Zr)-Total	0.66		0.20	mg/kg	18-JUL-23	19-JUL-23	R5964066
L2751405-35 15867230619209							
Sampled By: LO/CM on 19-JUN-23							
Matrix: MOSS BAG							
Miscellaneous Parameters							
% Moisture	85.2		0.50	%		11-JUL-23	R5962897
Mercury (Hg)-Total	0.0462		0.0050	mg/kg	18-JUL-23	25-JUL-23	R5964336
Silver (Ag)-Total	0.0081		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Sulfur (S)-Total	720		100	mg/kg	18-JUL-23	19-JUL-23	R5964066
Titanium (Ti)-Total	7.70		0.25	mg/kg	18-JUL-23	19-JUL-23	R5964066
Metals in Tissue by CRC ICPMS (DRY)							
Aluminum (Al)-Total	242		2.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Antimony (Sb)-Total	0.053		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Arsenic (As)-Total	0.247		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Barium (Ba)-Total	5.05		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Beryllium (Be)-Total	<0.010		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Bismuth (Bi)-Total	<0.010		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Boron (B)-Total	<1.0		1.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cadmium (Cd)-Total	0.0237		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Calcium (Ca)-Total	232		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cesium (Cs)-Total	0.0267		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Chromium (Cr)-Total	0.555		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cobalt (Co)-Total	0.210		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Copper (Cu)-Total	2.19		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Iron (Fe)-Total	351		3.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Lead (Pb)-Total	0.605		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Lithium (Li)-Total	<0.50		0.50	mg/kg	18-JUL-23	19-JUL-23	R5964066
Magnesium (Mg)-Total	97.6		2.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Manganese (Mn)-Total	22.3		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Molybdenum (Mo)-Total	0.482		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Nickel (Ni)-Total	0.43		0.20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Phosphorus (P)-Total	251		10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Potassium (K)-Total	132		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Rubidium (Rb)-Total	0.463		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Selenium (Se)-Total	0.056		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Sodium (Na)-Total	26		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Strontium (Sr)-Total	0.892		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Tellurium (Te)-Total	<0.020		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Thallium (Tl)-Total	0.0031		0.0020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Tin (Sn)-Total	0.11		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Uranium (U)-Total	0.0318		0.0020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Vanadium (V)-Total	0.55		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Zinc (Zn)-Total	5.75		0.50	mg/kg	18-JUL-23	19-JUL-23	R5964066
Zirconium (Zr)-Total	0.51		0.20	mg/kg	18-JUL-23	19-JUL-23	R5964066

* 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
L2751405-35 15867230619209							
Sampled By: LO/CM on 19-JUN-23							
Matrix: MOSS BAG							
L2751405-36 15867230619210							
Sampled By: LO/CM on 19-JUN-23							
Matrix: MOSS BAG							
Miscellaneous Parameters							
% Moisture	88.3		0.50	%		11-JUL-23	R5962897
Mercury (Hg)-Total	0.0498		0.0050	mg/kg	18-JUL-23	25-JUL-23	R5964336
Silver (Ag)-Total	0.0174		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Sulfur (S)-Total	660		100	mg/kg	18-JUL-23	19-JUL-23	R5964066
Titanium (Ti)-Total	9.65		0.25	mg/kg	18-JUL-23	19-JUL-23	R5964066
Metals in Tissue by CRC ICPMS (DRY)							
Aluminum (Al)-Total	286		2.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Antimony (Sb)-Total	0.058		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Arsenic (As)-Total	0.272		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Barium (Ba)-Total	7.54		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Beryllium (Be)-Total	<0.010		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Bismuth (Bi)-Total	<0.010		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Boron (B)-Total	<1.0		1.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cadmium (Cd)-Total	0.0270		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Calcium (Ca)-Total	437		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cesium (Cs)-Total	0.0300		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Chromium (Cr)-Total	0.637		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cobalt (Co)-Total	0.175		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Copper (Cu)-Total	1.68		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Iron (Fe)-Total	375		3.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Lead (Pb)-Total	0.581		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Lithium (Li)-Total	<0.50		0.50	mg/kg	18-JUL-23	19-JUL-23	R5964066
Magnesium (Mg)-Total	126		2.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Manganese (Mn)-Total	38.8		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Molybdenum (Mo)-Total	0.429		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Nickel (Ni)-Total	0.48		0.20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Phosphorus (P)-Total	265		10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Potassium (K)-Total	332		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Rubidium (Rb)-Total	0.442		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Selenium (Se)-Total	0.074		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Sodium (Na)-Total	73		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Strontium (Sr)-Total	1.58		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Tellurium (Te)-Total	<0.020		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Thallium (Tl)-Total	0.0029		0.0020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Tin (Sn)-Total	0.36		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Uranium (U)-Total	0.0361		0.0020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Vanadium (V)-Total	0.61		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Zinc (Zn)-Total	6.91		0.50	mg/kg	18-JUL-23	19-JUL-23	R5964066
Zirconium (Zr)-Total	0.63		0.20	mg/kg	18-JUL-23	19-JUL-23	R5964066
L2751405-37 15867230620211							
Sampled By: LO/CM on 20-JUN-23							
Matrix: MOSS BAG							
Miscellaneous Parameters							
% Moisture	84.6		0.50	%		11-JUL-23	R5962897
Mercury (Hg)-Total	0.0453		0.0050	mg/kg	18-JUL-23	25-JUL-23	R5964336
Silver (Ag)-Total	0.0075		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Sulfur (S)-Total	710		100	mg/kg	18-JUL-23	19-JUL-23	R5964066

* 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
L2751405-37 15867230620211							
Sampled By: LO/CM on 20-JUN-23							
Matrix: MOSS BAG							
Titanium (Ti)-Total	8.11		0.25	mg/kg	18-JUL-23	19-JUL-23	R5964066
Metals in Tissue by CRC ICPMS (DRY)							
Aluminum (Al)-Total	267		2.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Antimony (Sb)-Total	0.049		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Arsenic (As)-Total	0.229		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Barium (Ba)-Total	6.04		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Beryllium (Be)-Total	<0.010		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Bismuth (Bi)-Total	<0.010		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Boron (B)-Total	<1.0		1.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cadmium (Cd)-Total	0.0269		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Calcium (Ca)-Total	278		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cesium (Cs)-Total	0.0292		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Chromium (Cr)-Total	0.588		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cobalt (Co)-Total	0.175		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Copper (Cu)-Total	1.64		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Iron (Fe)-Total	357		3.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Lead (Pb)-Total	0.581		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Lithium (Li)-Total	<0.50		0.50	mg/kg	18-JUL-23	19-JUL-23	R5964066
Magnesium (Mg)-Total	125		2.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Manganese (Mn)-Total	30.8		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Molybdenum (Mo)-Total	0.413		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Nickel (Ni)-Total	0.46		0.20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Phosphorus (P)-Total	258		10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Potassium (K)-Total	172		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Rubidium (Rb)-Total	0.618		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Selenium (Se)-Total	0.066		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Sodium (Na)-Total	26		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Strontium (Sr)-Total	1.01		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Tellurium (Te)-Total	<0.020		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Thallium (Tl)-Total	0.0025		0.0020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Tin (Sn)-Total	0.14		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Uranium (U)-Total	0.0296		0.0020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Vanadium (V)-Total	0.58		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Zinc (Zn)-Total	6.42		0.50	mg/kg	18-JUL-23	19-JUL-23	R5964066
Zirconium (Zr)-Total	0.49		0.20	mg/kg	18-JUL-23	19-JUL-23	R5964066
L2751405-38 15867230620212							
Sampled By: LO/CM on 20-JUN-23							
Matrix: MOSS BAG							
Miscellaneous Parameters							
% Moisture	80.1		0.50	%		11-JUL-23	R5962897
Mercury (Hg)-Total	0.0448		0.0050	mg/kg	18-JUL-23	25-JUL-23	R5964336
Silver (Ag)-Total	0.0072		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Sulfur (S)-Total	590		100	mg/kg	18-JUL-23	19-JUL-23	R5964066
Titanium (Ti)-Total	9.18		0.25	mg/kg	18-JUL-23	19-JUL-23	R5964066
Metals in Tissue by CRC ICPMS (DRY)							
Aluminum (Al)-Total	294		2.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Antimony (Sb)-Total	0.049		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Arsenic (As)-Total	0.260		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Barium (Ba)-Total	5.53		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Beryllium (Be)-Total	<0.010		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Bismuth (Bi)-Total	<0.010		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066

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

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2751405-38 15867230620212							
Sampled By: LO/CM on 20-JUN-23							
Matrix: MOSS BAG							
Metals in Tissue by CRC ICPMS (DRY)							
Boron (B)-Total	<1.0		1.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cadmium (Cd)-Total	0.0199		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Calcium (Ca)-Total	270		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cesium (Cs)-Total	0.0341		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Chromium (Cr)-Total	0.720		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cobalt (Co)-Total	0.153		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Copper (Cu)-Total	1.55		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Iron (Fe)-Total	383		3.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Lead (Pb)-Total	0.572		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Lithium (Li)-Total	<0.50		0.50	mg/kg	18-JUL-23	19-JUL-23	R5964066
Magnesium (Mg)-Total	100		2.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Manganese (Mn)-Total	31.0		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Molybdenum (Mo)-Total	0.365		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Nickel (Ni)-Total	0.47		0.20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Phosphorus (P)-Total	230		10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Potassium (K)-Total	174		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Rubidium (Rb)-Total	0.588		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Selenium (Se)-Total	0.080		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Sodium (Na)-Total	22		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Strontium (Sr)-Total	1.04		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Tellurium (Te)-Total	<0.020		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Thallium (Tl)-Total	0.0027		0.0020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Tin (Sn)-Total	0.33		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Uranium (U)-Total	0.0341		0.0020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Vanadium (V)-Total	0.65		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Zinc (Zn)-Total	5.90		0.50	mg/kg	18-JUL-23	19-JUL-23	R5964066
Zirconium (Zr)-Total	0.57		0.20	mg/kg	18-JUL-23	19-JUL-23	R5964066
L2751405-39 15867230621213							
Sampled By: LO/CM on 21-JUN-23							
Matrix: MOSS BAG							
Miscellaneous Parameters							
% Moisture	79.7		0.50	%		11-JUL-23	R5962897
Mercury (Hg)-Total	0.0445		0.0050	mg/kg	18-JUL-23	25-JUL-23	R5964336
Silver (Ag)-Total	0.0076		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Sulfur (S)-Total	680		100	mg/kg	18-JUL-23	19-JUL-23	R5964066
Titanium (Ti)-Total	9.14		0.25	mg/kg	18-JUL-23	19-JUL-23	R5964066
Metals in Tissue by CRC ICPMS (DRY)							
Aluminum (Al)-Total	314		2.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Antimony (Sb)-Total	0.053		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Arsenic (As)-Total	0.274		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Barium (Ba)-Total	6.53		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Beryllium (Be)-Total	<0.010		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Bismuth (Bi)-Total	<0.010		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Boron (B)-Total	<1.0		1.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cadmium (Cd)-Total	0.0235		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Calcium (Ca)-Total	331		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cesium (Cs)-Total	0.0337		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Chromium (Cr)-Total	0.865		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cobalt (Co)-Total	0.167		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Copper (Cu)-Total	1.67		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Iron (Fe)-Total	379		3.0	mg/kg	18-JUL-23	19-JUL-23	R5964066

* 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
L2751405-39 15867230621213							
Sampled By: LO/CM on 21-JUN-23							
Matrix: MOSS BAG							
Metals in Tissue by CRC ICPMS (DRY)							
Lead (Pb)-Total	0.614		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Lithium (Li)-Total	<0.50		0.50	mg/kg	18-JUL-23	19-JUL-23	R5964066
Magnesium (Mg)-Total	105		2.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Manganese (Mn)-Total	21.0		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Molybdenum (Mo)-Total	0.399		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Nickel (Ni)-Total	0.49		0.20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Phosphorus (P)-Total	261		10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Potassium (K)-Total	152		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Rubidium (Rb)-Total	0.481		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Selenium (Se)-Total	0.079		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Sodium (Na)-Total	26		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Strontium (Sr)-Total	1.12		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Tellurium (Te)-Total	<0.020		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Thallium (Tl)-Total	0.0030		0.0020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Tin (Sn)-Total	0.30		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Uranium (U)-Total	0.0357		0.0020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Vanadium (V)-Total	0.67		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Zinc (Zn)-Total	8.16		0.50	mg/kg	18-JUL-23	19-JUL-23	R5964066
Zirconium (Zr)-Total	0.56		0.20	mg/kg	18-JUL-23	19-JUL-23	R5964066
L2751405-40 15867230621214							
Sampled By: LO/CM on 21-JUN-23							
Matrix: MOSS BAG							
Miscellaneous Parameters							
% Moisture	85.8		0.50	%		11-JUL-23	R5962897
Mercury (Hg)-Total	0.0527		0.0050	mg/kg	18-JUL-23	25-JUL-23	R5964336
Silver (Ag)-Total	0.0100		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Sulfur (S)-Total	740		100	mg/kg	18-JUL-23	19-JUL-23	R5964066
Titanium (Ti)-Total	9.80		0.25	mg/kg	18-JUL-23	19-JUL-23	R5964066
Metals in Tissue by CRC ICPMS (DRY)							
Aluminum (Al)-Total	342		2.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Antimony (Sb)-Total	0.056		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Arsenic (As)-Total	0.263		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Barium (Ba)-Total	11.3		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Beryllium (Be)-Total	<0.010		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Bismuth (Bi)-Total	0.010		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Boron (B)-Total	<1.0		1.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cadmium (Cd)-Total	0.0290		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Calcium (Ca)-Total	1080		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cesium (Cs)-Total	0.0382		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Chromium (Cr)-Total	0.885		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cobalt (Co)-Total	0.189		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Copper (Cu)-Total	1.90		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Iron (Fe)-Total	422		3.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Lead (Pb)-Total	0.638		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Lithium (Li)-Total	<0.50		0.50	mg/kg	18-JUL-23	19-JUL-23	R5964066
Magnesium (Mg)-Total	302		2.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Manganese (Mn)-Total	128		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Molybdenum (Mo)-Total	0.425		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Nickel (Ni)-Total	0.77		0.20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Phosphorus (P)-Total	278		10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Potassium (K)-Total	645		20	mg/kg	18-JUL-23	19-JUL-23	R5964066

* 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
L2751405-40 15867230621214							
Sampled By: LO/CM on 21-JUN-23							
Matrix: MOSS BAG							
Metals in Tissue by CRC ICPMS (DRY)							
Rubidium (Rb)-Total	2.04		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Selenium (Se)-Total	0.077		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Sodium (Na)-Total	38		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Strontium (Sr)-Total	3.07		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Tellurium (Te)-Total	<0.020		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Thallium (Tl)-Total	0.0044		0.0020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Tin (Sn)-Total	0.21		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Uranium (U)-Total	0.0381		0.0020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Vanadium (V)-Total	0.76		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Zinc (Zn)-Total	10.4		0.50	mg/kg	18-JUL-23	19-JUL-23	R5964066
Zirconium (Zr)-Total	0.58		0.20	mg/kg	18-JUL-23	19-JUL-23	R5964066
L2751405-41 15867230621215							
Sampled By: LO/CM on 21-JUN-23							
Matrix: MOSS BAG							
Miscellaneous Parameters							
% Moisture	84.7		0.50	%		11-JUL-23	R5962897
Mercury (Hg)-Total	0.0446		0.0050	mg/kg	18-JUL-23	25-JUL-23	R5964336
Silver (Ag)-Total	0.0087		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Sulfur (S)-Total	670		100	mg/kg	18-JUL-23	19-JUL-23	R5964066
Titanium (Ti)-Total	8.34		0.25	mg/kg	18-JUL-23	19-JUL-23	R5964066
Metals in Tissue by CRC ICPMS (DRY)							
Aluminum (Al)-Total	295		2.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Antimony (Sb)-Total	0.056		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Arsenic (As)-Total	0.266		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Barium (Ba)-Total	5.73		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Beryllium (Be)-Total	<0.010		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Bismuth (Bi)-Total	0.010		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Boron (B)-Total	<1.0		1.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cadmium (Cd)-Total	0.0369		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Calcium (Ca)-Total	213		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cesium (Cs)-Total	0.0319		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Chromium (Cr)-Total	0.714		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cobalt (Co)-Total	0.160		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Copper (Cu)-Total	1.63		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Iron (Fe)-Total	375		3.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Lead (Pb)-Total	0.643		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Lithium (Li)-Total	<0.50		0.50	mg/kg	18-JUL-23	19-JUL-23	R5964066
Magnesium (Mg)-Total	86.7		2.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Manganese (Mn)-Total	16.9		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Molybdenum (Mo)-Total	0.401		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Nickel (Ni)-Total	0.46		0.20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Phosphorus (P)-Total	220		10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Potassium (K)-Total	140		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Rubidium (Rb)-Total	0.511		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Selenium (Se)-Total	0.075		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Sodium (Na)-Total	21		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Strontium (Sr)-Total	0.934		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Tellurium (Te)-Total	<0.020		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Thallium (Tl)-Total	0.0028		0.0020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Tin (Sn)-Total	0.15		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Uranium (U)-Total	0.0355		0.0020	mg/kg	18-JUL-23	19-JUL-23	R5964066

* 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
L2751405-41 15867230621215							
Sampled By: LO/CM on 21-JUN-23							
Matrix: MOSS BAG							
Metals in Tissue by CRC ICPMS (DRY)							
Vanadium (V)-Total	0.64		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Zinc (Zn)-Total	5.99		0.50	mg/kg	18-JUL-23	19-JUL-23	R5964066
Zirconium (Zr)-Total	0.54		0.20	mg/kg	18-JUL-23	19-JUL-23	R5964066
L2751405-42 15867230629012							
Sampled By: LO on 29-JUN-23							
Matrix: MOSS							
All PCB congeners by GC/HRMS							
PCB 1	2.90	M,J,R	0.22	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 2	1.05	[J]	0.25	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 3	1.60	J,R	0.20	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 4	15.4		0.57	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 10	<0.28	[U]	0.28	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 9	2.47	[J]	0.26	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 7	1.17	M,J	0.27	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 6	7.10		0.28	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 5	<0.30	[U]	0.30	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 8	32.3	M	0.26	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 14	<0.72	[U]	0.72	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 11	16.2	M,B	0.70	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 13/12	3.60	M,J,R	0.66	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 15	30.2	M	0.63	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 19	3.75	[J]	0.12	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 30/18	39.1		0.31	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 17	17.3		0.36	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 27	2.81	M,J	0.27	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 24	0.53	M,J,R	0.29	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 16	15.7		0.39	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 32	12.1	M	0.25	pg/g wwt	02-NOV-23	17-NOV-23	R5972336
PCB 34	<3.2	[U]	3.2	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 23	<3.1	[U]	3.1	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 29/26	9.7	M,J	3.0	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 25	4.1	M,J	2.8	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 31	92.8		2.9	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 28/20	110		3.0	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 21/33	36.0	M,J,R	2.9	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 22	31.8	[J]	3.2	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 36	<2.7	[U]	2.7	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 39	<3.1	[U]	3.1	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 38	<3.0	M,U	3.0	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 35	4.6	M,J,R	3.3	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 37	65.8	M	4.0	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 54	<1.3	[U]	1.3	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 50/53	6.3	M,J	2.7	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 45/51	12.0	M,J	2.8	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 46	3.5	M,J,R	3.1	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 52	145	M	2.8	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 73	<1.9	[U]	1.9	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 43	<3.4	M,U	3.4	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 69/49	65.6	M	2.2	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 48	12.0	[J]	2.6	pg/g wwt	02-NOV-23	18-NOV-23	R5972336

* 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
L2751405-42 15867230629012							
Sampled By: LO on 29-JUN-23							
Matrix: MOSS							
All PCB congeners by GC/HRMS							
PCB 44/47/65	78.4		2.4	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 59/62/75	4.7	[J]	2.0	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 42	17.2	[J]	2.9	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 41/71/40	31.2	M,J	2.7	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 64	54.5	M	1.9	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 72	<3.7	[U]	3.7	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 68	<3.6	[U]	3.6	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 57	<3.8	[U]	3.8	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 58	<3.7	[U]	3.7	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 67	6.4	J,R	3.2	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 63	6.8	M,J,R	3.7	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 61/70/74/76	638		3.7	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 66	244	M	3.6	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 55	<3.8	[U]	3.8	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 56	71.2		3.8	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 60	60.0	M,R	3.8	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 80	<3.1	[U]	3.1	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 79	9.9	M,J	3.2	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 78	<4.0	[U]	4.0	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 81	4.56	M,J	0.30	pg/g wwt	02-NOV-23	09-DEC-23	R5972336
PCB 77	149		0.28	pg/g wwt	02-NOV-23	09-DEC-23	R5972336
PCB 104	<1.0	[U]	1.0	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 96	2.4	[J]	1.8	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 103	<4.8	[U]	4.8	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 94	<5.1	[U]	5.1	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 95	391	M	5.4	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 100/93/102/98	17.7	M,J	4.6	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 88/91	62.8		5.0	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 84	104		5.1	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 89	<5.9	[U]	5.9	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 121	<3.4	[U]	3.4	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 92	128		5.5	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 113/90/101	883		4.1	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 83/99	491		4.9	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 112	<3.3	[U]	3.3	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 109/119/86/97/125/87	471	M	3.9	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 117/116/85/110/115	1200	M	3.7	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 82	80.0	M,R	5.5	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 111	<3.4	[U]	3.4	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 120	3.8	M,J,R	3.3	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 108/124	51.8		3.3	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 107	96.4	M	2.9	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 123	13.0	M,J,R	3.5	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 106	<3.6	[U]	3.6	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 118	1570		3.6	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 122	22.0	J,R	4.4	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 114	45.0	R	4.0	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 105	839	M	3.4	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 127	<3.2	[U]	3.2	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 126	34.9		0.22	pg/g wwt	02-NOV-23	09-DEC-23	R5972336
PCB 155	<0.71	[U]	0.71	pg/g wwt	02-NOV-23	18-NOV-23	R5972336

* 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
L2751405-42 15867230629012							
Sampled By: LO on 29-JUN-23							
Matrix: MOSS							
All PCB congeners by GC/HRMS							
PCB 152	<1.2	M,U	1.2	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 150	2.20	M,J,R	0.99	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 136	138	M	1.1	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 145	<1.1	[U]	1.1	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 148	1.9	M,J,R	1.5	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 151/135	486	M	1.5	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 154	8.9	M,J,R	1.1	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 144	76.4		1.5	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 147/149	986	M	3.8	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 134/143	45.9		4.7	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 139/140	17.0	J,R	3.8	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 131	15.2	[J]	4.5	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 142	<4.8	[U]	4.8	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 132	463	M	4.4	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 133	23.0	M,J,R	4.3	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 165	5.1	[J]	3.2	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 146	232		3.5	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 161	<3.0	[U]	3.0	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 168/153	1630		3.1	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 141	373		3.8	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 130	102		4.4	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 137/164	188	M	3.4	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 138/163/129	2310		3.9	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 160	<2.8	[U]	2.8	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 158	192		2.6	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 128/166	310		3.4	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 159	24.3	M,J	2.8	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 162	9.2	M,J	3.0	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 167	113		3.2	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 156/157	284		4.4	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 169	1.90	M,J,R	0.19	pg/g wwt	02-NOV-23	09-DEC-23	R5972336
PCB 188	<1.5	[U]	1.5	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 179	184	M	1.5	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 184	<1.4	[U]	1.4	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 176	58.3		1.5	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 186	<1.5	[U]	1.5	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 178	111		2.1	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 175	27.9	[J]	2.0	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 187	724		1.9	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 182	<1.9	[U]	1.9	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 183	361		1.8	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 185	42.6	M	2.1	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 174	648	M	2.0	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 177	343		2.0	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 181	4.5	[J]	2.1	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 171/173	184		2.1	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 172	139		2.0	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 192	<1.7	[U]	1.7	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 180/193	1770		1.6	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 191	33.0	[J]	1.5	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 170	748		2.0	pg/g wwt	02-NOV-23	18-NOV-23	R5972336

* 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
L2751405-42 15867230629012							
Sampled By: LO on 29-JUN-23							
Matrix: MOSS							
All PCB congeners by GC/HRMS							
PCB 190	120	M	1.3	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 189	28.4	M,J	2.2	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 202	35.6	[J]	0.51	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 201	26.0	M,J,R	0.54	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 204	<0.56	[U]	0.56	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 197	8.20	J,R	0.57	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 200	28.0	J,R	0.59	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 198/199	320		0.76	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 196	165		0.74	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 203	193		0.73	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 195	105		1.7	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 194	349	M	1.6	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 205	17.0	M,J,R	1.6	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 208	8.4	M,J,R	3.2	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 207	8.6	M,J,R	3.4	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 206	72.0		6.3	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
PCB 209	14.3	[J]	0.87	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
Surrogate: 13C12 PCB 1	31.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 3	37.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 4	32.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 15	36.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 19	43.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 37	30.0	M	5-145	%	02-NOV-23	18-NOV-23	R5972336
Surrogate: 13C12 PCB 54	32.0		5-145	%	02-NOV-23	18-NOV-23	R5972336
Surrogate: 13C12 PCB 81	34.0		10-145	%	02-NOV-23	18-NOV-23	R5972336
Surrogate: 13C12 PCB 77	34.0		10-145	%	02-NOV-23	18-NOV-23	R5972336
Surrogate: 13C12 PCB 104	37.0		10-145	%	02-NOV-23	18-NOV-23	R5972336
Surrogate: 13C12 PCB 123	40.0		10-145	%	02-NOV-23	18-NOV-23	R5972336
Surrogate: 13C12 PCB 118	36.0		10-145	%	02-NOV-23	18-NOV-23	R5972336
Surrogate: 13C12 PCB 114	36.0		10-145	%	02-NOV-23	18-NOV-23	R5972336
Surrogate: 13C12 PCB 105	37.0		10-145	%	02-NOV-23	18-NOV-23	R5972336
Surrogate: 13C12 PCB 126	33.0		10-145	%	02-NOV-23	18-NOV-23	R5972336
Surrogate: 13C12 PCB 155	37.0		10-145	%	02-NOV-23	18-NOV-23	R5972336
Surrogate: 13C12 PCB 167	42.0		10-145	%	02-NOV-23	18-NOV-23	R5972336
Surrogate: 13C12 PCB 156/157	45.0		10-145	%	02-NOV-23	18-NOV-23	R5972336
Surrogate: 13C12 PCB 169	48.0		10-145	%	02-NOV-23	18-NOV-23	R5972336
Surrogate: 13C12 PCB 188	39.0		10-145	%	02-NOV-23	18-NOV-23	R5972336
Surrogate: 13C12 PCB 189	43.0		10-145	%	02-NOV-23	18-NOV-23	R5972336
Surrogate: 13C12 PCB 202	46.0		10-145	%	02-NOV-23	18-NOV-23	R5972336
Surrogate: 13C12 PCB 205	41.0		10-145	%	02-NOV-23	18-NOV-23	R5972336
Surrogate: 13C12 PCB 208	40.0		10-145	%	02-NOV-23	18-NOV-23	R5972336
Surrogate: 13C12 PCB 206	40.0		10-145	%	02-NOV-23	18-NOV-23	R5972336
Surrogate: 13C12 PCB 209	37.0		10-145	%	02-NOV-23	18-NOV-23	R5972336
Surrogate: 13C12 PCB 28	33.0		5-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 111	42.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Surrogate: 13C12 PCB 178	37.0		10-145	%	02-NOV-23	17-NOV-23	R5972336
Total MonoCB	5.55	[J]	0.20	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
Total DiCB	108	[J]	0.26	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
Total TriCB	446	[J]	0.12	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
Total TetraCB	1620	[J]	0.28	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
Total PentaCB	6510	[J]	0.22	pg/g wwt	02-NOV-23	18-NOV-23	R5972336

* 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
L2751405-42 15867230629012							
Sampled By: LO on 29-JUN-23							
Matrix: MOSS							
All PCB congeners by GC/HRMS							
Total HexaCB	8040	[J]	0.19	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
Total HeptaCB	5530	[J]	1.3	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
Total OctaCB	1250	[J]	0.51	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
Total NonaCB	89.0	[J]	3.2	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
DecaCB	14.3	[J]	0.87	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
Total PCB	23600	[J]	1.0	pg/g wwt	02-NOV-23	18-NOV-23	R5972336
Lower Bound PCB TEQ (WHO 2005)	3.59			pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Mid Point PCB TEQ (WHO 2005)	3.65			pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Upper Bound PCB TEQ (WHO 2005)	3.65			pg/g wwt	02-NOV-23	17-NOV-23	R5972336
Dioxins and Furans HR 1613B							
2,3,7,8-TCDD	<0.046	EMPC	0.046	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
1,2,3,7,8-PeCDD	0.067	EMPC	0.058	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
1,2,3,4,7,8-HxCDD	0.085	J,R	0.074	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
1,2,3,6,7,8-HxCDD	0.230	J,R	0.069	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
1,2,3,7,8,9-HxCDD	0.150	M,J,R	0.069	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
1,2,3,4,6,7,8-HpCDD	2.77	[J]	0.10	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
OCDD	10.8		0.87	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
2,3,7,8-TCDF	1.80		0.064	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
1,2,3,7,8-PeCDF	0.437	[J]	0.036	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
2,3,4,7,8-PeCDF	0.850	J,R	0.035	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
1,2,3,4,7,8-HxCDF	0.390	J,R	0.061	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
1,2,3,6,7,8-HxCDF	0.286	[J]	0.056	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
2,3,4,6,7,8-HxCDF	0.370	M,J,R	0.063	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
1,2,3,7,8,9-HxCDF	0.100	M,J,R	0.085	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
1,2,3,4,6,7,8-HpCDF	1.33	[J]	0.073	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
1,2,3,4,7,8,9-HpCDF	0.32	M,J	0.11	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
OCDF	1.59	J,B	0.14	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
Total-TCDD	<0.046	[U]	0.046	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
Total TCDD # Homologues	0				02-NOV-23	01-DEC-23	R5973319
Total-PeCDD	0.301		0.058	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
Total PeCDD # Homologues	2				02-NOV-23	01-DEC-23	R5973319
Total-HxCDD	3.13		0.074	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
Total HxCDD # Homologues	4				02-NOV-23	01-DEC-23	R5973319
Total-HpCDD	2.77		0.10	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
Total HpCDD # Homologues	1				02-NOV-23	01-DEC-23	R5973319
Total-TCDF	7.36		0.064	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
Total TCDF # Homologues	13				02-NOV-23	01-DEC-23	R5973319
Total-PeCDF	4.27		0.036	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
Total PeCDF # Homologues	7				02-NOV-23	01-DEC-23	R5973319
Total-HxCDF	0.344		0.085	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
Total HxCDF # Homologues	2				02-NOV-23	01-DEC-23	R5973319
Total-HpCDF	1.65		0.11	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
Total HpCDF # Homologues	2				02-NOV-23	01-DEC-23	R5973319
Surrogate: 13C12-2,3,7,8-TCDD	79.0		25-164	%	02-NOV-23	01-DEC-23	R5973319
Surrogate: 13C12-1,2,3,7,8-PeCDD	65.0		25-181	%	02-NOV-23	01-DEC-23	R5973319
Surrogate: 13C12-1,2,3,4,7,8-HxCDD	91.0		32-141	%	02-NOV-23	01-DEC-23	R5973319
Surrogate: 13C12-1,2,3,6,7,8-HxCDD	93.0		28-130	%	02-NOV-23	01-DEC-23	R5973319
Surrogate: 13C12-1,2,3,4,6,7,8-HpCDD	76.0		23-140	%	02-NOV-23	01-DEC-23	R5973319
Surrogate: 13C12-OCDD	64.0		17-157	%	02-NOV-23	01-DEC-23	R5973319
Surrogate: 13C12-2,3,7,8-TCDF	73.0		24-169	%	02-NOV-23	01-DEC-23	R5973319
Surrogate: 13C12-1,2,3,7,8-PeCDF	66.0		21-192	%	02-NOV-23	01-DEC-23	R5973319

* 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
L2751405-42 15867230629012							
Sampled By: LO on 29-JUN-23							
Matrix: MOSS							
Dioxins and Furans HR 1613B							
Surrogate: 13C12-2,3,4,7,8-PeCDF	61.0		21-178	%	02-NOV-23	01-DEC-23	R5973319
Surrogate: 13C12-1,2,3,4,7,8-HxCDF	98.0		26-152	%	02-NOV-23	01-DEC-23	R5973319
Surrogate: 13C12-1,2,3,6,7,8-HxCDF	103.0		26-123	%	02-NOV-23	01-DEC-23	R5973319
Surrogate: 13C12-2,3,4,6,7,8-HxCDF	92.0		29-147	%	02-NOV-23	01-DEC-23	R5973319
Surrogate: 13C12-1,2,3,7,8,9-HxCDF	82.0		28-136	%	02-NOV-23	01-DEC-23	R5973319
Surrogate: 13C12-1,2,3,4,6,7,8-HpCDF	70.0		28-143	%	02-NOV-23	01-DEC-23	R5973319
Surrogate: 13C12-1,2,3,4,7,8,9-HpCDF	65.0		26-138	%	02-NOV-23	01-DEC-23	R5973319
Surrogate: 37Cl4-2,3,7,8-TCDD (Cleanup)	70.0		31-197	%	02-NOV-23	01-DEC-23	R5973319
Lower Bound PCDD/F TEQ (WHO 2005)	0.270		0	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
Mid Point PCDD/F TEQ (WHO 2005)	0.770		0	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
Upper Bound PCDD/F TEQ (WHO 2005)	0.770		0	pg/g wwt	02-NOV-23	01-DEC-23	R5973319
L2751405-43 15867230629112							
Sampled By: LO on 29-JUN-23							
Matrix: LAB TEA							
Miscellaneous Parameters							
% Moisture	50.5		0.10	%	02-AUG-23	03-AUG-23	R5965039
% Moisture	50.6		0.50	%		12-JUL-23	R5963336
Mercury (Hg)-Total	0.0218		0.0050	mg/kg	18-JUL-23	25-JUL-23	R5964336
Silver (Ag)-Total	<0.0050		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Sulfur (S)-Total	1100		100	mg/kg	18-JUL-23	19-JUL-23	R5964066
Titanium (Ti)-Total	1.34		0.25	mg/kg	18-JUL-23	19-JUL-23	R5964066
Total Nitrogen by Leco	1.53		0.050	%	21-JUL-23	21-JUL-23	R5964216
Metals in Tissue by CRC ICPMS (DRY)							
Aluminum (Al)-Total	99.7		2.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Antimony (Sb)-Total	<0.010		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Arsenic (As)-Total	0.033		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Barium (Ba)-Total	105		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Beryllium (Be)-Total	<0.010		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Bismuth (Bi)-Total	<0.010		0.010	mg/kg	18-JUL-23	19-JUL-23	R5964066
Boron (B)-Total	27.2		1.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cadmium (Cd)-Total	0.0140		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Calcium (Ca)-Total	7380		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cesium (Cs)-Total	0.0315		0.0050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Chromium (Cr)-Total	0.099		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Cobalt (Co)-Total	0.045		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Copper (Cu)-Total	3.53		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Iron (Fe)-Total	93.1		3.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Lead (Pb)-Total	0.090		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Lithium (Li)-Total	<0.50		0.50	mg/kg	18-JUL-23	19-JUL-23	R5964066
Magnesium (Mg)-Total	1740		2.0	mg/kg	18-JUL-23	19-JUL-23	R5964066
Manganese (Mn)-Total	1110		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Molybdenum (Mo)-Total	0.020		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Nickel (Ni)-Total	0.49		0.20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Phosphorus (P)-Total	1190		10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Potassium (K)-Total	4610		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Rubidium (Rb)-Total	13.1		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Selenium (Se)-Total	<0.050		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Sodium (Na)-Total	<20		20	mg/kg	18-JUL-23	19-JUL-23	R5964066
Strontium (Sr)-Total	6.89		0.050	mg/kg	18-JUL-23	19-JUL-23	R5964066
Tellurium (Te)-Total	<0.020		0.020	mg/kg	18-JUL-23	19-JUL-23	R5964066

* 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
L2751405-43 15867230629112							
Sampled By: LO on 29-JUN-23							
Matrix: LAB TEA							
Metals in Tissue by CRC ICPMS (DRY)							
Thallium (Tl)-Total	0.0092		0.0020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Tin (Sn)-Total	<0.10		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Uranium (U)-Total	0.0037		0.0020	mg/kg	18-JUL-23	19-JUL-23	R5964066
Vanadium (V)-Total	0.12		0.10	mg/kg	18-JUL-23	19-JUL-23	R5964066
Zinc (Zn)-Total	32.9		0.50	mg/kg	18-JUL-23	19-JUL-23	R5964066
Zirconium (Zr)-Total	<0.20		0.20	mg/kg	18-JUL-23	19-JUL-23	R5964066
All PCB congeners by GC/HRMS							
PCB 1	5.1	M,[J],R	1.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 2	4.0	M,[J],R	1.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 3	5.6	M,[J],R	1.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 4	<10	[U]	10	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 10	<4.8	[U]	4.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 9	<4.9	[U]	4.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 7	<4.8	[U]	4.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 6	<5.0	[U]	5.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 5	<4.7	[U]	4.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 8	19.1	[J],[B]	4.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 14	<8.8	[U]	8.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 11	118	[B]	8.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 13/12	<7.4	[U]	7.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 15	21.0	M,[J],R	6.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 19	<4.4	[U]	4.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 30/18	20.0	[J],R	2.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 17	7.4	M,[J]	3.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 27	<2.3	[U]	2.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 24	<2.6	[U]	2.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 16	7.3	[J],R	3.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 32	8.3	[J],[B]	2.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 34	<5.0	[U]	5.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 23	<4.8	[U]	4.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 29/26	5.9	[J],R	4.5	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 25	<4.2	[U]	4.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 31	37.9	[J],[B]	4.5	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 28/20	78.4		4.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 21/33	24.0	[J]	4.5	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 22	10.0	[J],R	4.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 36	<4.2	[U]	4.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 39	<4.8	[U]	4.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 38	18.0	[J]	4.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 35	5.5	M,[J],R	5.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 37	65.7		3.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 54	<2.4	[U]	2.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 50/53	<5.6	[U]	5.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 45/51	<5.8	[U]	5.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 46	<6.2	[U]	6.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 52	95.0	M,[B]	5.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 73	<3.8	[U]	3.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 43	<6.9	[U]	6.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 69/49	27.3	[J],[B]	4.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 48	7.9	[J],R	5.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 44/47/65	61.9		4.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736

* 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
L2751405-43 15867230629112							
Sampled By: LO on 29-JUN-23							
Matrix: LAB TEA							
All PCB congeners by GC/HRMS							
PCB 59/62/75	<4.1	[U]	4.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 42	13.5	M,[J]	6.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 41/71/40	22.0	M,[J],R	5.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 64	23.5	[J]	4.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 72	<5.1	M,[U]	5.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 68	<5.2	[U]	5.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 57	<5.8	[U]	5.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 58	<5.4	[U]	5.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 67	<4.8	[U]	4.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 63	<5.7	[U]	5.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 61/70/74/76	270	[B]	5.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 66	176		5.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 55	<5.8	[U]	5.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 56	44.9		5.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 60	48.9		5.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 80	<4.6	[U]	4.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 79	7.5	M,[J],R	4.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 78	<6.3	[U]	6.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 81	<5.4	[U]	5.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 77	138		5.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 104	<1.9	[U]	1.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 96	<2.5	[U]	2.5	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 103	<3.9	[U]	3.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 94	<4.1	[U]	4.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 95	278	M	4.5	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 100/93/102/98	9.8	M,[J],R	3.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 88/91	30.0	[J],R	4.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 84	56.7		4.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 89	<5.1	M,[U]	5.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 121	<2.8	[U]	2.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 92	117		4.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 113/90/101	450		3.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 83/99	384		4.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 112	<2.7	[U]	2.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 109/119/86/97/125/87	238	M	2.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 117/116/85/110/115	840	M	3.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 82	58.5		4.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 111	<2.8	[U]	2.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 120	7.2	[J]	2.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 108/124	29.0	[J],R	7.5	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 107	47.0	M,R	5.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 123	14.0	M,[J],R	7.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 106	<9.0	[U]	9.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 118	817	M	7.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 122	<11	[U]	11	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 114	22.0	[J],R	7.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 105	400		6.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 127	<7.3	[U]	7.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 126	20.9	[J]	7.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 155	<1.4	[U]	1.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 152	<1.8	[U]	1.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736

* 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
L2751405-43 15867230629112							
Sampled By: LO on 29-JUN-23							
Matrix: LAB TEA							
All PCB congeners by GC/HRMS							
PCB 150	<1.6	M,[U]	1.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 136	70.0	R	2.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 145	<1.9	[U]	1.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 148	<2.7	[U]	2.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 151/135	316		2.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 154	10.1	[J]	2.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 144	48.1		2.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 147/149	427	M	3.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 134/143	22.8	[J]	5.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 139/140	15.0	[J],R	4.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 131	8.1	[J],R	5.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 142	<5.6	[U]	5.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 132	198		4.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 133	15.0	M,[J],R	5.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 165	<3.5	[U]	3.5	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 146	138		3.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 161	<3.5	[U]	3.5	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 168/153	942		3.5	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 141	185		4.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 130	52.9		5.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 137/164	98.3	M	3.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 138/163/129	1070		4.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 160	<3.6	[U]	3.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 158	102		2.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 128/166	155		4.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 159	13.0	[J],R	3.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 162	5.8	[J]	3.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 167	44.3	[J]	3.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 156/157	84.0	[J],R	4.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 169	<3.4	[U]	3.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 188	<2.3	[U]	2.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 179	74.5		2.5	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 184	<2.4	[U]	2.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 176	28.0	[J],R	2.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 186	<2.6	[U]	2.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 178	38.0	[J],R	3.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 175	10.6	[J]	3.5	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 187	281		3.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 182	<3.2	[U]	3.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 183	140	M,R	3.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 185	9.2	M,[J],R	3.5	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 174	221	M	3.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 177	123		3.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 181	<3.5	[U]	3.5	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 171/173	65.0	R	3.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 172	49.8		3.6	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 192	<3.0	[U]	3.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 180/193	482		2.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 191	10.0	[J],R	2.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 170	185		3.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 190	40.5	M,[J]	2.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736

* 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
L2751405-43 15867230629112							
Sampled By: LO on 29-JUN-23							
Matrix: LAB TEA							
All PCB congeners by GC/HRMS							
PCB 189	3.6	M,[J],R	3.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 202	7.9	[J],R	2.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 201	<14	[U]	14	pg/g wwt	25-AUG-23	07-SEP-23	R5967736
PCB 204	<2.1	[U]	2.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 197	5.8	M,[J],R	2.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 200	6.6	M,[J]	2.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 198/199	85.9		3.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 196	37.8	[J]	3.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 203	34.0	[J],R	2.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 195	34	M,[J],R	33	pg/g wwt	25-AUG-23	07-SEP-23	R5967736
PCB 194	51.5		3.8	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 205	<3.1	[U]	3.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 208	<8.2	[U]	8.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 207	<9.5	[U]	9.5	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 206	<15	[U]	15	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
PCB 209	<23	[U]	23	pg/g wwt	25-AUG-23	07-SEP-23	R5967736
Surrogate: 13C12 PCB 1	19.0		5-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 3	23.0		5-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 4	19.0		5-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 15	20.0		5-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 19	17.0		5-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 37	22.0		5-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 54	17.0		5-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 81	23.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 77	23.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 104	18.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 123	22.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 118	21.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 114	21.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 105	22.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 126	22.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 155	19.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 167	21.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 156/157	21.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 169	22.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 188	20.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 189	19.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 202	18.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 205	21.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 208	20.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 206	19.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 209	24.0		10-145	%	25-AUG-23	07-SEP-23	R5967736
Surrogate: 13C12 PCB 28	32.0		5-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 111	34.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Surrogate: 13C12 PCB 178	32.0		10-145	%	25-AUG-23	02-SEP-23	R5967736
Total MonoCB	14.7	[J]	1.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Total DiCB	158	[J]	4.7	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Total TriCB	288	[J]	2.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Total TetraCB	936	[J]	2.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Total PentaCB	3820	[J]	1.9	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Total HexaCB	4020	[J]	1.4	pg/g wwt	25-AUG-23	02-SEP-23	R5967736

* 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
L2751405-43 15867230629112							
Sampled By: LO on 29-JUN-23							
Matrix: LAB TEA							
All PCB congeners by GC/HRMS							
Total HeptaCB	1760	[J]	2.3	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Total OctaCB	263	[J]	2.1	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Total NonaCB	<8.2	[U]	8.2	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
DecaCB	<23	[U]	23	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Total PCB	11300	[J]	1.0	pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Lower Bound PCB TEQ (WHO 2005)	2.14			pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Mid Point PCB TEQ (WHO 2005)	2.20			pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Upper Bound PCB TEQ (WHO 2005)	2.25			pg/g wwt	25-AUG-23	02-SEP-23	R5967736
Dioxins and Furans HR 1613B							
2,3,7,8-TCDD	<2.7	[U]	2.7	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,7,8-PeCDD	<3.5	[U]	3.5	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,4,7,8-HxCDD	<3.3	[U]	3.3	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,6,7,8-HxCDD	<3.5	[U]	3.5	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,7,8,9-HxCDD	<3.3	[U]	3.3	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,4,6,7,8-HpCDD	<4.1	[U]	4.1	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
OCDD	<10	M,U	10	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
2,3,7,8-TCDF	<2.5	M,U	2.5	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,7,8-PeCDF	<2.5	[U]	2.5	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
2,3,4,7,8-PeCDF	<2.3	[U]	2.3	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,4,7,8-HxCDF	<1.5	[U]	1.5	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,6,7,8-HxCDF	<1.4	[U]	1.4	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
2,3,4,6,7,8-HxCDF	<1.6	[U]	1.6	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,7,8,9-HxCDF	<2.3	[U]	2.3	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,4,6,7,8-HpCDF	<3.0	[U]	3.0	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
1,2,3,4,7,8,9-HpCDF	<4.0	[U]	4.0	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
OCDF	<4.0	[U]	4.0	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Total-TCDD	<2.7	[U]	2.7	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Total TCDD # Homologues	0				02-AUG-23	20-AUG-23	R5967776
Total-PeCDD	<3.5	[U]	3.5	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Total PeCDD # Homologues	0				02-AUG-23	20-AUG-23	R5967776
Total-HxCDD	<3.5	[U]	3.5	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Total HxCDD # Homologues	0				02-AUG-23	20-AUG-23	R5967776
Total-HpCDD	<4.1	[U]	4.1	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Total HpCDD # Homologues	0				02-AUG-23	20-AUG-23	R5967776
Total-TCDF	<2.5	[U]	2.5	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Total TCDF # Homologues	0				02-AUG-23	20-AUG-23	R5967776
Total-PeCDF	<2.5	[U]	2.5	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Total PeCDF # Homologues	0				02-AUG-23	20-AUG-23	R5967776
Total-HxCDF	<2.3	[U]	2.3	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Total HxCDF # Homologues	0				02-AUG-23	20-AUG-23	R5967776
Total-HpCDF	<4.0	[U]	4.0	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Total HpCDF # Homologues	0				02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-2,3,7,8-TCDD	36.0		25-164	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-1,2,3,7,8-PeCDD	42.0		25-181	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-1,2,3,4,7,8-HxCDD	41.0		32-141	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-1,2,3,6,7,8-HxCDD	36.0		28-130	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-1,2,3,4,6,7,8-HpCDD	41.0		23-140	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-OCDD	32.0		17-157	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-2,3,7,8-TCDF	42.0		24-169	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-1,2,3,7,8-PeCDF	54.0		21-192	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-2,3,4,7,8-PeCDF	49.0		21-178	%	02-AUG-23	20-AUG-23	R5967776

* 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
L2751405-43 15867230629112							
Sampled By: LO on 29-JUN-23							
Matrix: LAB TEA							
Dioxins and Furans HR 1613B							
Surrogate: 13C12-1,2,3,4,7,8-HxCDF	46.0		26-152	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-1,2,3,6,7,8-HxCDF	51.0		26-123	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-2,3,4,6,7,8-HxCDF	48.0		29-147	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-1,2,3,7,8,9-HxCDF	42.0		28-136	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-1,2,3,4,6,7,8-HpCDF	42.0		28-143	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 13C12-1,2,3,4,7,8,9-HpCDF	45.0		26-138	%	02-AUG-23	20-AUG-23	R5967776
Surrogate: 37Cl4-2,3,7,8-TCDD (Cleanup)	51.0		31-197	%	02-AUG-23	20-AUG-23	R5967776
Lower Bound PCDD/F TEQ (WHO 2005)	0.00		0	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Mid Point PCDD/F TEQ (WHO 2005)	4.51		0	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
Upper Bound PCDD/F TEQ (WHO 2005)	9.02		0	pg/g wwt	02-AUG-23	20-AUG-23	R5967776
L2751405-44 15867230629218							
Sampled By: LO on 29-JUN-23							
Matrix: MOSS							
Miscellaneous Parameters							
% Moisture	16.5		0.50	%		12-JUL-23	R5963336
Mercury (Hg)-Total	0.0463		0.0050	mg/kg	19-JUL-23	25-JUL-23	R5964336
Silver (Ag)-Total	0.0089		0.0050	mg/kg	19-JUL-23	20-JUL-23	R5964085
Sulfur (S)-Total	650		100	mg/kg	19-JUL-23	20-JUL-23	R5964085
Titanium (Ti)-Total	9.29		0.25	mg/kg	19-JUL-23	20-JUL-23	R5964085
Metals in Tissue by CRC ICPMS (DRY)							
Aluminum (Al)-Total	312		2.0	mg/kg	19-JUL-23	20-JUL-23	R5964085
Antimony (Sb)-Total	0.053		0.010	mg/kg	19-JUL-23	20-JUL-23	R5964085
Arsenic (As)-Total	0.258		0.020	mg/kg	19-JUL-23	20-JUL-23	R5964085
Barium (Ba)-Total	5.44		0.050	mg/kg	19-JUL-23	20-JUL-23	R5964085
Beryllium (Be)-Total	0.010		0.010	mg/kg	19-JUL-23	20-JUL-23	R5964085
Bismuth (Bi)-Total	0.011		0.010	mg/kg	19-JUL-23	20-JUL-23	R5964085
Boron (B)-Total	<1.0		1.0	mg/kg	19-JUL-23	20-JUL-23	R5964085
Cadmium (Cd)-Total	0.0213		0.0050	mg/kg	19-JUL-23	20-JUL-23	R5964085
Calcium (Ca)-Total	265		20	mg/kg	19-JUL-23	20-JUL-23	R5964085
Cesium (Cs)-Total	0.0360		0.0050	mg/kg	19-JUL-23	20-JUL-23	R5964085
Chromium (Cr)-Total	0.697		0.050	mg/kg	19-JUL-23	20-JUL-23	R5964085
Cobalt (Co)-Total	0.156		0.020	mg/kg	19-JUL-23	20-JUL-23	R5964085
Copper (Cu)-Total	1.75		0.10	mg/kg	19-JUL-23	20-JUL-23	R5964085
Iron (Fe)-Total	383		3.0	mg/kg	19-JUL-23	20-JUL-23	R5964085
Lead (Pb)-Total	0.655		0.020	mg/kg	19-JUL-23	20-JUL-23	R5964085
Lithium (Li)-Total	<0.50		0.50	mg/kg	19-JUL-23	20-JUL-23	R5964085
Magnesium (Mg)-Total	107		2.0	mg/kg	19-JUL-23	20-JUL-23	R5964085
Manganese (Mn)-Total	23.1		0.050	mg/kg	19-JUL-23	20-JUL-23	R5964085
Molybdenum (Mo)-Total	0.407		0.020	mg/kg	19-JUL-23	20-JUL-23	R5964085
Nickel (Ni)-Total	0.59		0.20	mg/kg	19-JUL-23	20-JUL-23	R5964085
Phosphorus (P)-Total	230		10	mg/kg	19-JUL-23	20-JUL-23	R5964085
Potassium (K)-Total	231		20	mg/kg	19-JUL-23	20-JUL-23	R5964085
Rubidium (Rb)-Total	0.652		0.050	mg/kg	19-JUL-23	20-JUL-23	R5964085
Selenium (Se)-Total	0.100		0.050	mg/kg	19-JUL-23	20-JUL-23	R5964085
Sodium (Na)-Total	<20		20	mg/kg	19-JUL-23	20-JUL-23	R5964085
Strontium (Sr)-Total	0.999		0.050	mg/kg	19-JUL-23	20-JUL-23	R5964085
Tellurium (Te)-Total	<0.020		0.020	mg/kg	19-JUL-23	20-JUL-23	R5964085
Thallium (Tl)-Total	0.0032		0.0020	mg/kg	19-JUL-23	20-JUL-23	R5964085
Tin (Sn)-Total	0.87		0.10	mg/kg	19-JUL-23	20-JUL-23	R5964085
Uranium (U)-Total	0.0390		0.0020	mg/kg	19-JUL-23	20-JUL-23	R5964085
Vanadium (V)-Total	0.71		0.10	mg/kg	19-JUL-23	20-JUL-23	R5964085

* 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
L2751405-44 15867230629218							
Sampled By: LO on 29-JUN-23							
Matrix: MOSS							
Metals in Tissue by CRC ICPMS (DRY)							
Zinc (Zn)-Total	6.36		0.50	mg/kg	19-JUL-23	20-JUL-23	R5964085
Zirconium (Zr)-Total	0.77		0.20	mg/kg	19-JUL-23	20-JUL-23	R5964085

* 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.
EMPC	Estimated Maximum Possible Concentration. Parameter detected but didn't meet all criteria for positive identification.
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,G	QC result did not meet ALS DQO. Refer to narrative comments for further information. Duplicate expressed in terms of absolute difference.
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,B	A peak has been manually integrated and the analyte was detected in the Method Blank at >10% of the sample concentration.
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.
[B]	The analyte was detected in the Method Blank at >10% of the sample concentration.
[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**
AG-DRY-CCMS-N-VA	Tissue	Silver in Tissue by CRC ICPMS (DRY)	EPA 200.3/6020A

This method is conducted following British Columbia Lab Manual method "Metals in Animal Tissue and Vegetation (Biota) - Prescriptive". Tissue samples are homogenized and sub-sampled prior to hotblock digestion with nitric and hydrochloric acids, in combination with addition of hydrogen peroxide. Instrumental analysis is by collision cell inductively coupled plasma - mass spectrometry (modified from EPA Method 6020A).

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.

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.

HG-DRY-CVAFS-N-VA	Tissue	Mercury in Tissue by CVAAS (DRY)	EPA 200.3, EPA 245.7

This method is conducted following British Columbia Lab Manual method "Metals in Animal Tissue and Vegetation (Biota) - Prescriptive". Tissue samples are homogenized and sub-sampled prior to hotblock digestion with nitric and hydrochloric acids, in combination with addition of hydrogen peroxide. Analysis is by atomic fluorescence spectrophotometry or atomic absorption spectrophotometry, adapted from US EPA Method 245.7.

MET-DRY-CCMS-N-VA	Tissue	Metals in Tissue by CRC ICPMS (DRY)	EPA 200.3/6020A

This method is conducted following British Columbia Lab Manual method "Metals in Animal Tissue and Vegetation (Biota) - Prescriptive". Tissue samples are homogenized and sub-sampled prior to hotblock digestion with nitric and hydrochloric acids, in combination with addition of hydrogen peroxide. Instrumental analysis is by collision cell inductively coupled plasma - mass spectrometry (modified from EPA Method 6020A).

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.

MOISTURE-BU	Tissue	% Moisture	ASTM METHOD D2794-00

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.

MOISTURE-TISS-VA	Tissue	% Moisture in Tissues	Puget Sound WQ Authority, Apr 1997

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
This analysis is carried out gravimetrically by drying the sample at 105 C for a minimum of six hours.			
N-TOT-LECO-SK	Tissue	Total Nitrogen by Combustion	CSSS (2008) 22.4
The sample is ignited in a combustion analyzer where nitrogen in the reduced nitrous oxide gas is determined using a thermal conductivity detector.			
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.			
PCB-ED	Soil	PCBs	EPA 3570/8082-GC-ECD
This analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846, Methods 3500, 3620, 3630, 3660, 3665 & 8082, published by the United States Environmental Protection Agency (EPA). The procedure involves a solid-liquid extraction of a subsample of the sediment/soil using a mixture of hexane and acetone. Water is added to the extract and the resulting hexane extract undergoes one or more of the following clean-up procedures (if required): florisil clean-up, silica gel clean-up, sulphur clean-up and/or sulphuric acid clean-up. The final extract is analysed by capillary column gas chromatography with electron capture detection (GC/ECD).			
PREP-MOISTURE-ED	Soil	% Moisture	CCME PHC in Soil - Tier 1 (mod)
The weighed portion of soil is placed in a 105°C oven to dry to a constant weight; the drying time will vary based on the moisture content of the soil. The dried soil weight is then used to calculate % moisture.			
S-DRY-CCMS-N-VA	Tissue	Sulfur in Tissue by CRC ICPMS (DRY)	EPA 200.3/6020A
This method is conducted following British Columbia Lab Manual method "Metals in Animal Tissue and Vegetation (Biota) - Prescriptive". Tissue samples are homogenized and sub-sampled prior to hotblock digestion with nitric and hydrochloric acids, in combination with addition of hydrogen peroxide. Instrumental analysis is by collision cell inductively coupled plasma - mass spectrometry (modified from EPA Method 6020A). 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.			
TI-DRY-CCMS-N-VA	Tissue	Ti in Tissue by CRC ICPMS (DRY)	EPA 200.3/6020A
This method is conducted following British Columbia Lab Manual method "Metals in Animal Tissue and Vegetation (Biota) - Prescriptive". Tissue samples are homogenized and sub-sampled prior to hotblock digestion with nitric and hydrochloric acids, in combination with addition of hydrogen peroxide. Instrumental analysis is by collision cell inductively coupled plasma - mass spectrometry (modified from EPA Method 6020A). 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.			

** 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
SK	ALS ENVIRONMENTAL - SASKATOON, SASKATCHEWAN, CANADA
BU	ALS ENVIRONMENTAL - BURLINGTON, ONTARIO, CANADA
ED	ALS ENVIRONMENTAL - EDMONTON, ALBERTA, CANADA
VA	ALS ENVIRONMENTAL - VANCOUVER, BRITISH COLUMBIA, CANADA

Chain of Custody Numbers:

120258,120256,120257

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**

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 wwt - 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

Client: Matrix Solutions Inc.
Suite 142 6325 Gateway Blvd
Edmonton AB T6H5H6
Contact: Lindsay Oiffer

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PCB-ED	**Soil**							
Batch R5964096								
WG3786011-3 DUP		**L2751405-24**						
Aroclor 1016		<0.010	<0.010	RPD-NA	mg/kg	N/A	50	14-JUL-23
Aroclor 1221		<0.010	<0.010	RPD-NA	mg/kg	N/A	50	14-JUL-23
Aroclor 1232		<0.010	<0.010	RPD-NA	mg/kg	N/A	50	14-JUL-23
Aroclor 1242		<0.010	<0.010	RPD-NA	mg/kg	N/A	50	14-JUL-23
Aroclor 1248		<0.010	<0.010	RPD-NA	mg/kg	N/A	50	14-JUL-23
Aroclor 1254		<0.010	<0.010	RPD-NA	mg/kg	N/A	50	14-JUL-23
Aroclor 1260		<0.010	<0.010	RPD-NA	mg/kg	N/A	50	14-JUL-23
Aroclor 1262		<0.010	<0.010	RPD-NA	mg/kg	N/A	50	14-JUL-23
Aroclor 1268		<0.010	<0.010	RPD-NA	mg/kg	N/A	50	14-JUL-23
WG3786011-2 LCS								
Aroclor 1260			113.1		%		50-150	14-JUL-23
WG3786011-1 MB								
Aroclor 1016			<0.010		mg/kg		0.01	14-JUL-23
Aroclor 1221			<0.010		mg/kg		0.01	14-JUL-23
Aroclor 1232			<0.010		mg/kg		0.01	14-JUL-23
Aroclor 1242			<0.010		mg/kg		0.01	14-JUL-23
Aroclor 1248			<0.010		mg/kg		0.01	14-JUL-23
Aroclor 1254			<0.010		mg/kg		0.01	14-JUL-23
Aroclor 1260			<0.010		mg/kg		0.01	14-JUL-23
Aroclor 1262			<0.010		mg/kg		0.01	14-JUL-23
Aroclor 1268			<0.010		mg/kg		0.01	14-JUL-23
Surrogate: Decachlorobiphenyl			103.2		%		65-130	14-JUL-23
PREP-MOISTURE-ED	**Soil**							
Batch R5963677								
WG3786167-3 DUP		**L2751405-24**						
% Moisture		<0.25	<0.25	RPD-NA	%	N/A	20	14-JUL-23
WG3786167-2 LCS								
% Moisture			99.8		%		90-110	14-JUL-23
WG3786167-1 MB								
% Moisture			<0.25		%		0.25	14-JUL-23
AG-DRY-CCMS-N-VA	**Tissue**							
Batch R5964066								
WG3786210-2 DUP		**L2751405-2**						
Silver (Ag)-Total		<0.0050	<0.0050	RPD-NA	mg/kg	N/A	40	19-JUL-23
WG3786210-3 LCS								

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
AG-DRY-CCMS-N-VA	**Tissue**							
Batch R5964066								
WG3786210-3 LCS								
Silver (Ag)-Total			96.0		%		80-120	19-JUL-23
WG3786211-3 LCS								
Silver (Ag)-Total			96.4		%		80-120	19-JUL-23
WG3786210-1 MB								
Silver (Ag)-Total			<0.0050		mg/kg		0.005	19-JUL-23
WG3786211-1 MB								
Silver (Ag)-Total			<0.0050		mg/kg		0.005	19-JUL-23
Batch R5964085								
WG3786243-2 DUP		**L2751405-44**						
Silver (Ag)-Total		0.0089	0.0079		mg/kg	12	40	20-JUL-23
WG3786243-3 LCS								
Silver (Ag)-Total			98.0		%		80-120	20-JUL-23
WG3786243-1 MB								
Silver (Ag)-Total			<0.0050		mg/kg		0.005	20-JUL-23
DX-1613B-HRMS-BU	**Tissue**							
Batch R5967776								
WG3786292-4 DUP		**L2751405-2**						
2,3,7,8-TCDD		<4.1	<4.7	RPD-NA	pg/g wwt	N/A	50	19-AUG-23
1,2,3,7,8-PeCDD		<4.8	<4.8	RPD-NA	pg/g wwt	N/A	50	19-AUG-23
1,2,3,4,7,8-HxCDD		<4.1	<3.9	RPD-NA	pg/g wwt	N/A	50	19-AUG-23
1,2,3,6,7,8-HxCDD		<3.9	<4.0	RPD-NA	pg/g wwt	N/A	50	19-AUG-23
1,2,3,7,8,9-HxCDD		<3.9	<3.9	RPD-NA	pg/g wwt	N/A	50	19-AUG-23
1,2,3,4,6,7,8-HpCDD		<5.3	<6.6	RPD-NA	pg/g wwt	N/A	50	19-AUG-23
OCDD		16.0	<8.5	RPD-NA	pg/g wwt	N/A	50	19-AUG-23
2,3,7,8-TCDF		<3.9	<3.6	RPD-NA	pg/g wwt	N/A	50	19-AUG-23
1,2,3,7,8-PeCDF		<2.5	<3.3	RPD-NA	pg/g wwt	N/A	50	19-AUG-23
2,3,4,7,8-PeCDF		<2.5	<3.2	RPD-NA	pg/g wwt	N/A	50	19-AUG-23
1,2,3,4,7,8-HxCDF		<2.4	<2.5	RPD-NA	pg/g wwt	N/A	50	19-AUG-23
1,2,3,6,7,8-HxCDF		<2.6	<2.4	RPD-NA	pg/g wwt	N/A	50	19-AUG-23
2,3,4,6,7,8-HxCDF		<2.5	<2.4	RPD-NA	pg/g wwt	N/A	50	19-AUG-23
1,2,3,7,8,9-HxCDF		<3.2	<3.4	RPD-NA	pg/g wwt	N/A	50	19-AUG-23
1,2,3,4,6,7,8-HpCDF		<3.8	<3.1	RPD-NA	pg/g wwt	N/A	50	19-AUG-23
1,2,3,4,7,8,9-HpCDF		<4.6	<4.2	RPD-NA	pg/g wwt	N/A	50	19-AUG-23
OCDF		<6.4	<6.8	RPD-NA	pg/g wwt	N/A	50	19-AUG-23
Total-TCDD		<4.1	<4.7	RPD-NA	pg/g wwt	N/A	50	19-AUG-23

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
DX-1613B-HRMS-BU	**Tissue**							
Batch **R5967776**								
WG3786292-4 **DUP**		**L2751405-2**						
Total-PeCDD		<4.8	<4.8	RPD-NA	pg/g wwt	N/A	50	19-AUG-23
Total-HxCDD		<4.1	<4.0	RPD-NA	pg/g wwt	N/A	50	19-AUG-23
Total-HpCDD		<5.3	<6.6	RPD-NA	pg/g wwt	N/A	50	19-AUG-23
Total-TCDF		<3.9	<3.6	RPD-NA	pg/g wwt	N/A	50	19-AUG-23
Total-PeCDF		<2.5	7.5	G	pg/g wwt	N/A	50	19-AUG-23
Total-HxCDF		<3.2	<3.4	RPD-NA	pg/g wwt	N/A	50	19-AUG-23
Total-HpCDF		<4.6	<4.2	RPD-NA	pg/g wwt	N/A	50	19-AUG-23
COMMENTS: Sample and duplicate are outside method RPD criteria for select total homologues, no impact to data quality is expected.								
WG3786292-2 **LCS**								
2,3,7,8-TCDD			93.0		%		67-158	19-AUG-23
1,2,3,7,8-PeCDD			110.0		%		70-142	19-AUG-23
1,2,3,4,7,8-HxCDD			101.0		%		70-164	19-AUG-23
1,2,3,6,7,8-HxCDD			105.0		%		76-134	19-AUG-23
1,2,3,7,8,9-HxCDD			102.0		%		64-162	19-AUG-23
1,2,3,4,6,7,8-HpCDD			90.0		%		70-140	19-AUG-23
OCDD			91.0		%		78-144	19-AUG-23
2,3,7,8-TCDF			98.0		%		75-158	19-AUG-23
1,2,3,7,8-PeCDF			100.0		%		80-134	19-AUG-23
2,3,4,7,8-PeCDF			94.0		%		68-160	19-AUG-23
1,2,3,4,7,8-HxCDF			100.0		%		72-134	19-AUG-23
1,2,3,6,7,8-HxCDF			97.0		%		84-130	19-AUG-23
2,3,4,6,7,8-HxCDF			89.0		%		70-156	19-AUG-23
1,2,3,7,8,9-HxCDF			101.0		%		78-130	19-AUG-23
1,2,3,4,6,7,8-HpCDF			96.0		%		82-122	19-AUG-23
1,2,3,4,7,8,9-HpCDF			93.0		%		78-138	19-AUG-23
OCDF			99.0		%		63-170	19-AUG-23
COMMENTS: Sample is outside method recovery criteria for select labelled targets, native results are quantified using isotope dilution and are inherently recovery corrected.								
WG3786292-1 **MB**								
2,3,7,8-TCDD			N/A	[U]	pg/g wwt			19-AUG-23
1,2,3,7,8-PeCDD			N/A	[U]	pg/g wwt			19-AUG-23
1,2,3,4,7,8-HxCDD			N/A	[U]	pg/g wwt			19-AUG-23
1,2,3,6,7,8-HxCDD			N/A	[U]	pg/g wwt			19-AUG-23
1,2,3,7,8,9-HxCDD			N/A	[U]	pg/g wwt			19-AUG-23
1,2,3,4,6,7,8-HpCDD			N/A	[U]	pg/g wwt			19-AUG-23

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
DX-1613B-HRMS-BU	**Tissue**							
Batch	**R5967776**							
WG3786292-1	**MB**							
OCDD			N/A	M,J,R	pg/g wwt			19-AUG-23
2,3,7,8-TCDF			N/A	[U]	pg/g wwt			19-AUG-23
1,2,3,7,8-PeCDF			N/A	[U]	pg/g wwt			19-AUG-23
2,3,4,7,8-PeCDF			N/A	[U]	pg/g wwt			19-AUG-23
1,2,3,4,7,8-HxCDF			N/A	[U]	pg/g wwt			19-AUG-23
1,2,3,6,7,8-HxCDF			N/A	[U]	pg/g wwt			19-AUG-23
2,3,4,6,7,8-HxCDF			N/A	[U]	pg/g wwt			19-AUG-23
1,2,3,7,8,9-HxCDF			N/A	[U]	pg/g wwt			19-AUG-23
1,2,3,4,6,7,8-HpCDF			N/A	[U]	pg/g wwt			19-AUG-23
1,2,3,4,7,8,9-HpCDF			N/A	[U]	pg/g wwt			19-AUG-23
OCDF			N/A	[U]	pg/g wwt			19-AUG-23
Total-TCDD			N/A	[U]	pg/g wwt			19-AUG-23
Total-PeCDD			N/A	[U]	pg/g wwt			19-AUG-23
Total-HxCDD			N/A	[U]	pg/g wwt			19-AUG-23
Total-HpCDD			N/A	[U]	pg/g wwt			19-AUG-23
Total-TCDF			N/A	[U]	pg/g wwt			19-AUG-23
Total-PeCDF			N/A	[U]	pg/g wwt			19-AUG-23
Total-HxCDF			N/A	[U]	pg/g wwt			19-AUG-23
Total-HpCDF			N/A	[U]	pg/g wwt			19-AUG-23
Surrogate: 13C12-2,3,7,8-TCDD			20.0	G	%		25-164	19-AUG-23
Surrogate: 13C12-1,2,3,7,8-PeCDD			24.0	G	%		25-181	19-AUG-23
Surrogate: 13C12-1,2,3,4,7,8-HxCDD			25.0	G	%		32-141	19-AUG-23
Surrogate: 13C12-1,2,3,6,7,8-HxCDD			23.0	G	%		28-130	19-AUG-23
Surrogate: 13C12-1,2,3,4,6,7,8-HpCDD			31.0		%		23-140	19-AUG-23
Surrogate: 13C12-OCDD			30.0		%		17-157	19-AUG-23
Surrogate: 13C12-2,3,7,8-TCDF			20.0	G	%		24-169	19-AUG-23
Surrogate: 13C12-1,2,3,7,8-PeCDF			26.0		%		21-192	19-AUG-23
Surrogate: 13C12-2,3,4,7,8-PeCDF			26.0		%		21-178	19-AUG-23
Surrogate: 13C12-1,2,3,4,7,8-HxCDF			26.0		%		26-152	19-AUG-23
Surrogate: 13C12-1,2,3,6,7,8-HxCDF			25.0	G	%		26-123	19-AUG-23
Surrogate: 13C12-2,3,4,6,7,8-HxCDF			28.0	G	%		29-147	19-AUG-23
Surrogate: 13C12-1,2,3,7,8,9-HxCDF			27.0	G	%		28-136	19-AUG-23
Surrogate: 13C12-1,2,3,4,6,7,8-HpCDF			28.0		%		28-143	19-AUG-23

COMMENTS: Sample is outside method recovery criteria for select labelled targets, native results are quantified using isotope dilution and are

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
DX-1613B-HRMS-BU	**Tissue**							
Batch R5967776								
WG3786292-1 MB								
Surrogate: 13C12-1,2,3,4,7,8,9-HpCDF			31.0		%		26-138	19-AUG-23
Surrogate: 37Cl4-2,3,7,8-TCDD (Cleanup)			31.0		%		31-197	19-AUG-23
COMMENTS: Sample is outside method recovery criteria for select labelled targets, native results are quantified using isotope dilution and are inherently recovery corrected.								
WG3786292-5 MS		**L2751405-2**						
2,3,7,8-TCDD			91.0		%		67-158	19-AUG-23
1,2,3,7,8-PeCDD			112.0		%		70-142	19-AUG-23
1,2,3,4,7,8-HxCDD			98.0		%		70-164	19-AUG-23
1,2,3,6,7,8-HxCDD			98.0		%		76-134	19-AUG-23
1,2,3,7,8,9-HxCDD			100.0		%		64-162	19-AUG-23
1,2,3,4,6,7,8-HpCDD			86.0		%		70-140	19-AUG-23
OCDD			89.0		%		78-144	19-AUG-23
2,3,7,8-TCDF			91.0		%		75-158	19-AUG-23
1,2,3,7,8-PeCDF			96.0		%		80-134	19-AUG-23
2,3,4,7,8-PeCDF			91.0		%		68-160	19-AUG-23
1,2,3,4,7,8-HxCDF			99.0		%		72-134	19-AUG-23
1,2,3,6,7,8-HxCDF			98.0		%		84-130	19-AUG-23
2,3,4,6,7,8-HxCDF			90.0		%		78-130	19-AUG-23
1,2,3,7,8,9-HxCDF			101.0		%		70-156	19-AUG-23
1,2,3,4,6,7,8-HpCDF			99.0		%		82-122	19-AUG-23
1,2,3,4,7,8,9-HpCDF			95.0		%		78-138	19-AUG-23
OCDF			98.0		%		63-170	19-AUG-23
WG3786292-6 MSD		**L2751405-2**						
2,3,7,8-TCDD		N/A	86		%	5.6	50	19-AUG-23
1,2,3,7,8-PeCDD		N/A	106		%	5.5	50	19-AUG-23
1,2,3,4,7,8-HxCDD		N/A	100		%	2.0	50	19-AUG-23
1,2,3,6,7,8-HxCDD		N/A	100		%	2.0	50	19-AUG-23
1,2,3,7,8,9-HxCDD		N/A	106		%	5.8	50	19-AUG-23
1,2,3,4,6,7,8-HpCDD		N/A	87		%	1.2	50	19-AUG-23
OCDD		N/A	88		%	1.1	50	19-AUG-23
2,3,7,8-TCDF		N/A	95		%	4.3	50	19-AUG-23
1,2,3,7,8-PeCDF		N/A	99		%	3.1	50	19-AUG-23
2,3,4,7,8-PeCDF		N/A	93		%	2.2	50	19-AUG-23
1,2,3,4,7,8-HxCDF		N/A	95		%	4.1	50	19-AUG-23
1,2,3,6,7,8-HxCDF		N/A	100		%	2.0	50	19-AUG-23

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
DX-1613B-HRMS-BU	**Tissue**							
Batch R5967776								
WG3786292-6 MSD		**L2751405-2**						
2,3,4,6,7,8-HxCDF		N/A	90		%	0.0	50	19-AUG-23
1,2,3,7,8,9-HxCDF		N/A	101		%	0.0	50	19-AUG-23
1,2,3,4,6,7,8-HpCDF		N/A	102		%	3.0	50	19-AUG-23
1,2,3,4,7,8,9-HpCDF		N/A	92		%	3.2	50	19-AUG-23
OCDF		N/A	100		%	2.0	50	19-AUG-23
Batch R5972336								
WG3787327-4 DUP		**L2751405-1**						
2,3,7,8-TCDD		<0.059	<0.098	RPD-NA	pg/g wwt	N/A	50	12-NOV-23
1,2,3,7,8-PeCDD		<0.053	<0.12	RPD-NA	pg/g wwt	N/A	50	12-NOV-23
1,2,3,4,7,8-HxCDD		0.051	<0.13	RPD-NA	pg/g wwt	N/A	50	12-NOV-23
1,2,3,6,7,8-HxCDD		0.083	<0.13	RPD-NA	pg/g wwt	N/A	50	12-NOV-23
1,2,3,7,8,9-HxCDD		0.046	<0.12	RPD-NA	pg/g wwt	N/A	50	12-NOV-23
1,2,3,4,6,7,8-HpCDD		0.77	0.84		pg/g wwt	8.7	50	12-NOV-23
OCDD		4.80	7.05		pg/g wwt	38	50	12-NOV-23
2,3,7,8-TCDF		0.093	<0.067	RPD-NA	pg/g wwt	N/A	50	12-NOV-23
1,2,3,7,8-PeCDF		<0.064	0.075	RPD-NA	pg/g wwt	N/A	50	12-NOV-23
2,3,4,7,8-PeCDF		<0.065	<0.065	RPD-NA	pg/g wwt	N/A	50	12-NOV-23
1,2,3,4,7,8-HxCDF		0.046	<0.036	RPD-NA	pg/g wwt	N/A	50	12-NOV-23
1,2,3,6,7,8-HxCDF		<0.040	<0.039	RPD-NA	pg/g wwt	N/A	50	12-NOV-23
2,3,4,6,7,8-HxCDF		<0.041	<0.045	RPD-NA	pg/g wwt	N/A	50	12-NOV-23
1,2,3,7,8,9-HxCDF		<0.058	<0.066	RPD-NA	pg/g wwt	N/A	50	12-NOV-23
1,2,3,4,6,7,8-HpCDF		0.140	0.33	G	pg/g wwt	N/A	50	12-NOV-23
1,2,3,4,7,8,9-HpCDF		0.059	<0.23	RPD-NA	pg/g wwt	N/A	50	12-NOV-23
OCDF		0.540	0.55		pg/g wwt	1.8	50	12-NOV-23
Total-TCDD		<0.059	<0.098	RPD-NA	pg/g wwt	N/A	50	12-NOV-23
Total-PeCDD		<0.053	<0.12	RPD-NA	pg/g wwt	N/A	50	12-NOV-23
Total-HxCDD		0.385	0.36		pg/g wwt	7.3	50	12-NOV-23
Total-HpCDD		<0.18	1.16	G	pg/g wwt	N/A	50	12-NOV-23
Total-TCDF		<0.049	<0.067	RPD-NA	pg/g wwt	N/A	50	12-NOV-23
Total-PeCDF		<0.065	<0.066	RPD-NA	pg/g wwt	N/A	50	12-NOV-23
Total-HxCDF		0.219	0.089	J	pg/g wwt	0.130	0.132	12-NOV-23
Total-HpCDF		0.145	<0.23	RPD-NA	pg/g wwt	N/A	50	12-NOV-23

COMMENTS: Replication criteria for the sample and duplicate showed as outside the method limits for two compounds.

WG3787327-2 LCS

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
DX-1613B-HRMS-BU	**Tissue**							
Batch R5972336								
WG3787327-2 LCS								
2,3,7,8-TCDD			88.0		%		67-158	11-NOV-23
1,2,3,7,8-PeCDD			104.0		%		70-142	11-NOV-23
1,2,3,4,7,8-HxCDD			103.0		%		70-164	11-NOV-23
1,2,3,6,7,8-HxCDD			96.0		%		76-134	11-NOV-23
1,2,3,7,8,9-HxCDD			98.0		%		64-162	11-NOV-23
1,2,3,4,6,7,8-HpCDD			91.0		%		70-140	11-NOV-23
OCDD			89.0		%		78-144	11-NOV-23
2,3,7,8-TCDF			94.0		%		75-158	11-NOV-23
1,2,3,7,8-PeCDF			99.0		%		80-134	11-NOV-23
2,3,4,7,8-PeCDF			97.0		%		68-160	11-NOV-23
1,2,3,4,7,8-HxCDF			99.0		%		72-134	11-NOV-23
1,2,3,6,7,8-HxCDF			100.0		%		84-130	11-NOV-23
2,3,4,6,7,8-HxCDF			93.0		%		70-156	11-NOV-23
1,2,3,7,8,9-HxCDF			106.0		%		78-130	11-NOV-23
1,2,3,4,6,7,8-HpCDF			100.0		%		82-122	11-NOV-23
1,2,3,4,7,8,9-HpCDF			101.0		%		78-138	11-NOV-23
OCDF			96.0		%		63-170	11-NOV-23
WG3787327-1 MB								
2,3,7,8-TCDD			<0.032	[U]	pg/g wwt		1	11-NOV-23
1,2,3,7,8-PeCDD			<0.036	[U]	pg/g wwt		5	11-NOV-23
1,2,3,4,7,8-HxCDD			<0.047	[U]	pg/g wwt		5	11-NOV-23
1,2,3,6,7,8-HxCDD			<0.048	[U]	pg/g wwt		5	11-NOV-23
1,2,3,7,8,9-HxCDD			<0.046	[U]	pg/g wwt		5	11-NOV-23
1,2,3,4,6,7,8-HpCDD			<0.067	[U]	pg/g wwt		5	11-NOV-23
OCDD			0.56	M,J	pg/g wwt		10	11-NOV-23
2,3,7,8-TCDF			<0.037	[U]	pg/g wwt		1	11-NOV-23
1,2,3,7,8-PeCDF			<0.043	M,U	pg/g wwt		5	11-NOV-23
2,3,4,7,8-PeCDF			<0.037	[U]	pg/g wwt		5	11-NOV-23
1,2,3,4,7,8-HxCDF			<0.017	[U]	pg/g wwt		5	11-NOV-23
1,2,3,6,7,8-HxCDF			<0.017	M,U	pg/g wwt		5	11-NOV-23
2,3,4,6,7,8-HxCDF			<0.019	[U]	pg/g wwt		5	11-NOV-23
1,2,3,7,8,9-HxCDF			<0.026	[U]	pg/g wwt		5	11-NOV-23
1,2,3,4,6,7,8-HpCDF			<0.063	[U]	pg/g wwt		5	11-NOV-23
1,2,3,4,7,8,9-HpCDF			<0.090	[U]	pg/g wwt		5	11-NOV-23

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
DX-1613B-HRMS-BU	**Tissue**							
Batch R5972336								
WG3787327-1 MB								
OCDF			0.130	M,J,R	pg/g wwt		10	11-NOV-23
Total-TCDD			0.117	A	pg/g wwt		0.032	11-NOV-23
Total-PeCDD			<0.036	[U]	pg/g wwt		0.036	11-NOV-23
Total-HxCDD			<0.048	[U]	pg/g wwt		0.048	11-NOV-23
Total-HpCDD			<0.067	[U]	pg/g wwt		0.067	11-NOV-23
Total-TCDF			<0.037	[U]	pg/g wwt		0.037	11-NOV-23
Total-PeCDF			<0.043	[U]	pg/g wwt		0.043	11-NOV-23
Total-HxCDF			<0.026	[U]	pg/g wwt		0.026	11-NOV-23
Total-HpCDF			<0.090	[U]	pg/g wwt		0.09	11-NOV-23
Surrogate: 13C12-2,3,7,8-TCDD			82.0		%		25-164	11-NOV-23
Surrogate: 13C12-1,2,3,7,8-PeCDD			91.0		%		25-181	11-NOV-23
Surrogate: 13C12-1,2,3,4,7,8-HxCDD			112.0		%		32-141	11-NOV-23
Surrogate: 13C12-1,2,3,6,7,8-HxCDD			111.0		%		28-130	11-NOV-23
Surrogate: 13C12-1,2,3,4,6,7,8-HpCDD			96.0		%		23-140	11-NOV-23
Surrogate: 13C12-OCDD			65.0		%		17-157	11-NOV-23
Surrogate: 13C12-2,3,7,8-TCDF			81.0		%		24-169	11-NOV-23
Surrogate: 13C12-1,2,3,7,8-PeCDF			100.0		%		21-192	11-NOV-23
Surrogate: 13C12-2,3,4,7,8-PeCDF			98.0		%		21-178	11-NOV-23
Surrogate: 13C12-1,2,3,4,7,8-HxCDF			121.0		%		26-152	11-NOV-23
Surrogate: 13C12-1,2,3,6,7,8-HxCDF			119.0		%		26-123	11-NOV-23
Surrogate: 13C12-2,3,4,6,7,8-HxCDF			119.0		%		29-147	11-NOV-23
Surrogate: 13C12-1,2,3,7,8,9-HxCDF			107.0		%		28-136	11-NOV-23
Surrogate: 13C12-1,2,3,4,6,7,8-HpCDF			100.0		%		28-143	11-NOV-23
Surrogate: 13C12-1,2,3,4,7,8,9-HpCDF			87.0		%		26-138	11-NOV-23
Surrogate: 37Cl4-2,3,7,8-TCDD (Cleanup)			81.0		%		31-197	11-NOV-23
COMMENTS: There were low levels of selected targets detected in the blank that were within the reference method control limits								
WG3787327-5 MS		**L2751405-1**						
2,3,7,8-TCDD			94.0		%		67-158	11-NOV-23
1,2,3,7,8-PeCDD			109.0		%		70-142	11-NOV-23
1,2,3,4,7,8-HxCDD			106.0		%		70-164	11-NOV-23
1,2,3,6,7,8-HxCDD			97.0		%		76-134	11-NOV-23
1,2,3,7,8,9-HxCDD			97.0		%		64-162	11-NOV-23
1,2,3,4,6,7,8-HpCDD			99.0		%		70-140	11-NOV-23
OCDD			93.0		%		78-144	11-NOV-23

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
DX-1613B-HRMS-BU	**Tissue**							
Batch R5972336								
WG3787327-5 MS		**L2751405-1**						
2,3,7,8-TCDF			100.0		%		75-158	11-NOV-23
1,2,3,7,8-PeCDF			105.0		%		80-134	11-NOV-23
2,3,4,7,8-PeCDF			102.0		%		68-160	11-NOV-23
1,2,3,4,7,8-HxCDF			103.0		%		72-134	11-NOV-23
1,2,3,6,7,8-HxCDF			103.0		%		84-130	11-NOV-23
2,3,4,6,7,8-HxCDF			96.0		%		78-130	11-NOV-23
1,2,3,7,8,9-HxCDF			106.0		%		70-156	11-NOV-23
1,2,3,4,6,7,8-HpCDF			102.0		%		82-122	11-NOV-23
1,2,3,4,7,8,9-HpCDF			102.0		%		78-138	11-NOV-23
OCDF			101.0		%		63-170	11-NOV-23
WG3787327-6 MSD		**L2751405-1**						
2,3,7,8-TCDD		N/A	89		%	5.5	50	11-NOV-23
1,2,3,7,8-PeCDD		N/A	104		%	4.7	50	11-NOV-23
1,2,3,4,7,8-HxCDD		N/A	102		%	3.8	50	11-NOV-23
1,2,3,6,7,8-HxCDD		N/A	91		%	6.4	50	11-NOV-23
1,2,3,7,8,9-HxCDD		N/A	93		%	4.2	50	11-NOV-23
1,2,3,4,6,7,8-HpCDD		N/A	95		%	4.1	50	11-NOV-23
OCDD		N/A	92		%	1.1	50	11-NOV-23
2,3,7,8-TCDF		N/A	98		%	2.0	50	11-NOV-23
1,2,3,7,8-PeCDF		N/A	99		%	5.9	50	11-NOV-23
2,3,4,7,8-PeCDF		N/A	96		%	6.1	50	11-NOV-23
1,2,3,4,7,8-HxCDF		N/A	99		%	4.0	50	11-NOV-23
1,2,3,6,7,8-HxCDF		N/A	99		%	4.0	50	11-NOV-23
2,3,4,6,7,8-HxCDF		N/A	92		%	4.3	50	11-NOV-23
1,2,3,7,8,9-HxCDF		N/A	104		%	1.9	50	11-NOV-23
1,2,3,4,6,7,8-HpCDF		N/A	100		%	2.0	50	11-NOV-23
1,2,3,4,7,8,9-HpCDF		N/A	101		%	1.0	50	11-NOV-23
OCDF		N/A	95		%	6.1	50	11-NOV-23
Batch R5973319								
WG3787568-8 LCS								
2,3,7,8-TCDD			81.0		%		67-158	01-DEC-23
1,2,3,7,8-PeCDD			103.0		%		70-142	01-DEC-23
1,2,3,4,7,8-HxCDD			96.0		%		70-164	01-DEC-23
1,2,3,6,7,8-HxCDD			93.0		%		76-134	01-DEC-23
1,2,3,7,8,9-HxCDD			96.0		%		64-162	01-DEC-23

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
DX-1613B-HRMS-BU	**Tissue**							
Batch R5973319								
WG3787568-8 LCS								
1,2,3,4,6,7,8-HpCDD			90.0		%		70-140	01-DEC-23
OCDD			89.0		%		78-144	01-DEC-23
2,3,7,8-TCDF			93.0		%		75-158	01-DEC-23
1,2,3,7,8-PeCDF			95.0		%		80-134	01-DEC-23
2,3,4,7,8-PeCDF			95.0		%		68-160	01-DEC-23
1,2,3,4,7,8-HxCDF			102.0		%		72-134	01-DEC-23
1,2,3,6,7,8-HxCDF			95.0		%		84-130	01-DEC-23
2,3,4,6,7,8-HxCDF			92.0		%		70-156	01-DEC-23
1,2,3,7,8,9-HxCDF			101.0		%		78-130	01-DEC-23
1,2,3,4,6,7,8-HpCDF			100.0		%		82-122	01-DEC-23
1,2,3,4,7,8,9-HpCDF			95.0		%		78-138	01-DEC-23
OCDF			90.0		%		63-170	01-DEC-23
WG3787568-7 MB								
2,3,7,8-TCDD			<0.031	[U]	pg/g wwt		1	01-DEC-23
1,2,3,7,8-PeCDD			<0.045	[U]	pg/g wwt		5	01-DEC-23
1,2,3,4,7,8-HxCDD			<0.064	[U]	pg/g wwt		5	01-DEC-23
1,2,3,6,7,8-HxCDD			<0.063	[U]	pg/g wwt		5	01-DEC-23
1,2,3,7,8,9-HxCDD			<0.061	[U]	pg/g wwt		5	01-DEC-23
1,2,3,4,6,7,8-HpCDD			0.21	J,R	pg/g wwt		5	01-DEC-23
OCDD			1.47	M,J	pg/g wwt		10	01-DEC-23
2,3,7,8-TCDF			<0.017	[U]	pg/g wwt		1	01-DEC-23
1,2,3,7,8-PeCDF			<0.041	[U]	pg/g wwt		5	01-DEC-23
2,3,4,7,8-PeCDF			<0.038	[U]	pg/g wwt		5	01-DEC-23
1,2,3,4,7,8-HxCDF			<0.026	[U]	pg/g wwt		5	01-DEC-23
1,2,3,6,7,8-HxCDF			<0.025	[U]	pg/g wwt		5	01-DEC-23
2,3,4,6,7,8-HxCDF			<0.028	[U]	pg/g wwt		5	01-DEC-23
1,2,3,7,8,9-HxCDF			0.068	J,R	pg/g wwt		5	01-DEC-23
1,2,3,4,6,7,8-HpCDF			<0.10	[U]	pg/g wwt		5	01-DEC-23
1,2,3,4,7,8,9-HpCDF			<0.16	[U]	pg/g wwt		5	01-DEC-23
OCDF			0.62	M,J,R	pg/g wwt		10	01-DEC-23
Total-TCDD			<0.031	[U]	pg/g wwt		0.031	01-DEC-23
Total-PeCDD			<0.045	[U]	pg/g wwt		0.045	01-DEC-23
Total-HxCDD			<0.064	[U]	pg/g wwt		0.064	01-DEC-23
Total-HpCDD			<0.12	[U]	pg/g wwt		0.12	01-DEC-23

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
DX-1613B-HRMS-BU	**Tissue**							
Batch R5973319								
WG3787568-7 MB								
Total-TCDF			<0.017	[U]	pg/g wwt		0.017	01-DEC-23
Total-PeCDF			<0.041	[U]	pg/g wwt		0.041	01-DEC-23
Total-HxCDF			<0.037	[U]	pg/g wwt		0.037	01-DEC-23
Total-HpCDF			<0.16	[U]	pg/g wwt		0.16	01-DEC-23
Surrogate: 13C12-2,3,7,8-TCDD			52.0		%		25-164	01-DEC-23
Surrogate: 13C12-1,2,3,7,8-PeCDD			69.0		%		25-181	01-DEC-23
Surrogate: 13C12-1,2,3,4,7,8-HxCDD			90.0		%		32-141	01-DEC-23
Surrogate: 13C12-1,2,3,6,7,8-HxCDD			95.0		%		28-130	01-DEC-23
Surrogate: 13C12-1,2,3,4,6,7,8-HpCDD			83.0		%		23-140	01-DEC-23
Surrogate: 13C12-OCDD			79.0		%		17-157	01-DEC-23
Surrogate: 13C12-2,3,7,8-TCDF			68.0		%		24-169	01-DEC-23
Surrogate: 13C12-1,2,3,7,8-PeCDF			71.0		%		21-192	01-DEC-23
Surrogate: 13C12-2,3,4,7,8-PeCDF			69.0		%		21-178	01-DEC-23
Surrogate: 13C12-1,2,3,4,7,8-HxCDF			95.0		%		26-152	01-DEC-23
Surrogate: 13C12-1,2,3,6,7,8-HxCDF			101.0		%		26-123	01-DEC-23
Surrogate: 13C12-2,3,4,6,7,8-HxCDF			93.0		%		29-147	01-DEC-23
Surrogate: 13C12-1,2,3,7,8,9-HxCDF			82.0		%		28-136	01-DEC-23
Surrogate: 13C12-1,2,3,4,6,7,8-HpCDF			77.0		%		28-143	01-DEC-23
Surrogate: 13C12-1,2,3,4,7,8,9-HpCDF			69.0		%		26-138	01-DEC-23
Surrogate: 37Cl4-2,3,7,8-TCDD (Cleanup)			51.0		%		31-197	01-DEC-23
HG-DRY-CVAFS-N-VA	**Tissue**							
Batch R5964336								
WG3786210-2 DUP		**L2751405-2**						
Mercury (Hg)-Total		0.0157	0.0141		mg/kg	11	40	25-JUL-23
WG3786243-2 DUP		**L2751405-44**						
Mercury (Hg)-Total		0.0463	0.0470		mg/kg	1.5	40	25-JUL-23
WG3786210-3 LCS								
Mercury (Hg)-Total			102.9		%		80-120	25-JUL-23
WG3786211-3 LCS								
Mercury (Hg)-Total			103.4		%		80-120	25-JUL-23
WG3786243-3 LCS								
Mercury (Hg)-Total			101.4		%		80-120	25-JUL-23
WG3786210-1 MB								
Mercury (Hg)-Total			<0.0050		mg/kg		0.005	25-JUL-23
WG3786211-1 MB								

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-DRY-CVAFS-N-VA	**Tissue**							
Batch R5964336								
WG3786211-1 MB								
Mercury (Hg)-Total			<0.0050		mg/kg		0.005	25-JUL-23
WG3786243-1 MB								
Mercury (Hg)-Total			<0.0050		mg/kg		0.005	25-JUL-23
MET-DRY-CCMS-N-VA	**Tissue**							
Batch R5964066								
WG3786210-2 DUP		**L2751405-2**						
Aluminum (Al)-Total		89.5	95.6		mg/kg	6.6	40	19-JUL-23
Antimony (Sb)-Total		0.012	0.013		mg/kg	3.4	40	19-JUL-23
Arsenic (As)-Total		0.022	0.028		mg/kg	27	40	19-JUL-23
Barium (Ba)-Total		97.7	97.9		mg/kg	0.2	40	19-JUL-23
Beryllium (Be)-Total		<0.010	<0.010	RPD-NA	mg/kg	N/A	40	19-JUL-23
Bismuth (Bi)-Total		<0.010	<0.010	RPD-NA	mg/kg	N/A	40	19-JUL-23
Boron (B)-Total		18.9	18.6		mg/kg	1.8	40	19-JUL-23
Cadmium (Cd)-Total		0.0083	0.0088		mg/kg	5.9	40	19-JUL-23
Calcium (Ca)-Total		6430	6280		mg/kg	2.3	60	19-JUL-23
Cesium (Cs)-Total		0.0515	0.0526		mg/kg	2.1	40	19-JUL-23
Chromium (Cr)-Total		0.107	0.114		mg/kg	6.1	40	19-JUL-23
Cobalt (Co)-Total		0.033	0.033		mg/kg	0.2	40	19-JUL-23
Copper (Cu)-Total		3.21	3.43		mg/kg	6.6	40	19-JUL-23
Iron (Fe)-Total		76.6	83.9		mg/kg	9.1	40	19-JUL-23
Lead (Pb)-Total		0.062	0.051		mg/kg	20	40	19-JUL-23
Lithium (Li)-Total		<0.50	<0.50	RPD-NA	mg/kg	N/A	40	19-JUL-23
Magnesium (Mg)-Total		1400	1480		mg/kg	5.2	40	19-JUL-23
Manganese (Mn)-Total		1320	1360		mg/kg	3.4	40	19-JUL-23
Molybdenum (Mo)-Total		<0.020	<0.020	RPD-NA	mg/kg	N/A	40	19-JUL-23
Nickel (Ni)-Total		0.40	0.42		mg/kg	4.6	40	19-JUL-23
Phosphorus (P)-Total		1210	1240		mg/kg	2.5	40	19-JUL-23
Potassium (K)-Total		3640	3670		mg/kg	1.0	40	19-JUL-23
Rubidium (Rb)-Total		11.4	11.6		mg/kg	1.9	40	19-JUL-23
Selenium (Se)-Total		<0.050	<0.050	RPD-NA	mg/kg	N/A	40	19-JUL-23
Sodium (Na)-Total		33	35		mg/kg	3.4	40	19-JUL-23
Strontium (Sr)-Total		4.05	4.17		mg/kg	2.7	60	19-JUL-23
Tellurium (Te)-Total		<0.020	<0.020	RPD-NA	mg/kg	N/A	40	19-JUL-23
Thallium (Tl)-Total		0.0162	0.0182		mg/kg	12	40	19-JUL-23

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-DRY-CCMS-N-VA	**Tissue**							
Batch R5964066								
WG3786210-2 DUP		**L2751405-2**						
Tin (Sn)-Total		<0.10	<0.10	RPD-NA	mg/kg	N/A	40	19-JUL-23
Uranium (U)-Total		0.0024	0.0022		mg/kg	6.7	40	19-JUL-23
Vanadium (V)-Total		<0.10	<0.10	RPD-NA	mg/kg	N/A	40	19-JUL-23
Zinc (Zn)-Total		30.3	31.0		mg/kg	2.5	40	19-JUL-23
Zirconium (Zr)-Total		<0.20	<0.20	RPD-NA	mg/kg	N/A	40	19-JUL-23
WG3786210-3 LCS								
Aluminum (Al)-Total			113.2		%		80-120	19-JUL-23
Antimony (Sb)-Total			101.9		%		80-120	19-JUL-23
Arsenic (As)-Total			110.7		%		80-120	19-JUL-23
Barium (Ba)-Total			108.2		%		80-120	19-JUL-23
Beryllium (Be)-Total			108.6		%		80-120	19-JUL-23
Bismuth (Bi)-Total			106.6		%		80-120	19-JUL-23
Boron (B)-Total			100.4		%		80-120	19-JUL-23
Cadmium (Cd)-Total			104.9		%		80-120	19-JUL-23
Calcium (Ca)-Total			107.4		%		80-120	19-JUL-23
Cesium (Cs)-Total			104.0		%		80-120	19-JUL-23
Chromium (Cr)-Total			106.0		%		80-120	19-JUL-23
Cobalt (Co)-Total			107.6		%		80-120	19-JUL-23
Copper (Cu)-Total			103.8		%		80-120	19-JUL-23
Iron (Fe)-Total			107.7		%		80-120	19-JUL-23
Lead (Pb)-Total			105.1		%		80-120	19-JUL-23
Lithium (Li)-Total			108.0		%		80-120	19-JUL-23
Magnesium (Mg)-Total			108.5		%		80-120	19-JUL-23
Manganese (Mn)-Total			108.2		%		80-120	19-JUL-23
Molybdenum (Mo)-Total			101.7		%		80-120	19-JUL-23
Nickel (Ni)-Total			106.4		%		80-120	19-JUL-23
Phosphorus (P)-Total			111.5		%		80-120	19-JUL-23
Potassium (K)-Total			111.3		%		80-120	19-JUL-23
Rubidium (Rb)-Total			108.1		%		80-120	19-JUL-23
Selenium (Se)-Total			108.4		%		80-120	19-JUL-23
Sodium (Na)-Total			108.0		%		80-120	19-JUL-23
Strontium (Sr)-Total			109.5		%		80-120	19-JUL-23
Tellurium (Te)-Total			101.1		%		80-120	19-JUL-23
Thallium (Tl)-Total			103.8		%		80-120	19-JUL-23

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-DRY-CCMS-N-VA	**Tissue**							
Batch R5964066								
WG3786210-3 LCS								
Tin (Sn)-Total			101.0		%		80-120	19-JUL-23
Uranium (U)-Total			104.4		%		80-120	19-JUL-23
Vanadium (V)-Total			109.4		%		80-120	19-JUL-23
Zinc (Zn)-Total			109.2		%		80-120	19-JUL-23
Zirconium (Zr)-Total			99.7		%		80-120	19-JUL-23
WG3786211-3 LCS								
Aluminum (Al)-Total			110.2		%		80-120	19-JUL-23
Antimony (Sb)-Total			103.8		%		80-120	19-JUL-23
Arsenic (As)-Total			109.1		%		80-120	19-JUL-23
Barium (Ba)-Total			105.2		%		80-120	19-JUL-23
Beryllium (Be)-Total			103.9		%		80-120	19-JUL-23
Bismuth (Bi)-Total			104.3		%		80-120	19-JUL-23
Boron (B)-Total			95.2		%		80-120	19-JUL-23
Cadmium (Cd)-Total			100.9		%		80-120	19-JUL-23
Calcium (Ca)-Total			105.2		%		80-120	19-JUL-23
Cesium (Cs)-Total			105.3		%		80-120	19-JUL-23
Chromium (Cr)-Total			103.6		%		80-120	19-JUL-23
Cobalt (Co)-Total			103.8		%		80-120	19-JUL-23
Copper (Cu)-Total			100.1		%		80-120	19-JUL-23
Iron (Fe)-Total			106.0		%		80-120	19-JUL-23
Lead (Pb)-Total			103.1		%		80-120	19-JUL-23
Lithium (Li)-Total			105.8		%		80-120	19-JUL-23
Magnesium (Mg)-Total			105.1		%		80-120	19-JUL-23
Manganese (Mn)-Total			103.6		%		80-120	19-JUL-23
Molybdenum (Mo)-Total			101.8		%		80-120	19-JUL-23
Nickel (Ni)-Total			102.7		%		80-120	19-JUL-23
Phosphorus (P)-Total			110.2		%		80-120	19-JUL-23
Potassium (K)-Total			109.4		%		80-120	19-JUL-23
Rubidium (Rb)-Total			107.0		%		80-120	19-JUL-23
Selenium (Se)-Total			103.8		%		80-120	19-JUL-23
Sodium (Na)-Total			104.1		%		80-120	19-JUL-23
Strontium (Sr)-Total			111.7		%		80-120	19-JUL-23
Tellurium (Te)-Total			102.4		%		80-120	19-JUL-23
Thallium (Tl)-Total			99.3		%		80-120	19-JUL-23

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-DRY-CCMS-N-VA	**Tissue**							
Batch R5964066								
WG3786211-3 LCS								
Tin (Sn)-Total			97.7		%		80-120	19-JUL-23
Uranium (U)-Total			103.9		%		80-120	19-JUL-23
Vanadium (V)-Total			105.8		%		80-120	19-JUL-23
Zinc (Zn)-Total			107.2		%		80-120	19-JUL-23
Zirconium (Zr)-Total			102.7		%		80-120	19-JUL-23
WG3786210-1 MB								
Aluminum (Al)-Total			<2.0		mg/kg		2	19-JUL-23
Antimony (Sb)-Total			<0.010		mg/kg		0.01	19-JUL-23
Arsenic (As)-Total			<0.020		mg/kg		0.02	19-JUL-23
Barium (Ba)-Total			<0.050		mg/kg		0.05	19-JUL-23
Beryllium (Be)-Total			<0.010		mg/kg		0.01	19-JUL-23
Bismuth (Bi)-Total			<0.010		mg/kg		0.01	19-JUL-23
Boron (B)-Total			<1.0		mg/kg		1	19-JUL-23
Cadmium (Cd)-Total			<0.0050		mg/kg		0.005	19-JUL-23
Calcium (Ca)-Total			<20		mg/kg		20	19-JUL-23
Cesium (Cs)-Total			<0.0050		mg/kg		0.005	19-JUL-23
Chromium (Cr)-Total			<0.050		mg/kg		0.05	19-JUL-23
Cobalt (Co)-Total			<0.020		mg/kg		0.02	19-JUL-23
Copper (Cu)-Total			<0.10		mg/kg		0.1	19-JUL-23
Iron (Fe)-Total			<3.0		mg/kg		3	19-JUL-23
Lead (Pb)-Total			<0.020		mg/kg		0.02	19-JUL-23
Lithium (Li)-Total			<0.50		mg/kg		0.5	19-JUL-23
Magnesium (Mg)-Total			<2.0		mg/kg		2	19-JUL-23
Manganese (Mn)-Total			<0.050		mg/kg		0.05	19-JUL-23
Molybdenum (Mo)-Total			<0.020		mg/kg		0.02	19-JUL-23
Nickel (Ni)-Total			<0.20		mg/kg		0.2	19-JUL-23
Phosphorus (P)-Total			<10		mg/kg		10	19-JUL-23
Potassium (K)-Total			<20		mg/kg		20	19-JUL-23
Rubidium (Rb)-Total			<0.050		mg/kg		0.05	19-JUL-23
Selenium (Se)-Total			<0.050		mg/kg		0.05	19-JUL-23
Sodium (Na)-Total			<20		mg/kg		20	19-JUL-23
Strontium (Sr)-Total			<0.050		mg/kg		0.05	19-JUL-23
Tellurium (Te)-Total			<0.020		mg/kg		0.02	19-JUL-23
Thallium (Tl)-Total			<0.0020		mg/kg		0.002	19-JUL-23

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-DRY-CCMS-N-VA	**Tissue**							
Batch R5964066								
WG3786210-1 MB								
Tin (Sn)-Total			<0.10		mg/kg		0.1	19-JUL-23
Uranium (U)-Total			<0.0020		mg/kg		0.002	19-JUL-23
Vanadium (V)-Total			<0.10		mg/kg		0.1	19-JUL-23
Zinc (Zn)-Total			<0.50		mg/kg		0.5	19-JUL-23
Zirconium (Zr)-Total			<0.20		mg/kg		0.2	19-JUL-23
WG3786211-1 MB								
Aluminum (Al)-Total			<2.0		mg/kg		2	19-JUL-23
Antimony (Sb)-Total			<0.010		mg/kg		0.01	19-JUL-23
Arsenic (As)-Total			<0.020		mg/kg		0.02	19-JUL-23
Barium (Ba)-Total			<0.050		mg/kg		0.05	19-JUL-23
Beryllium (Be)-Total			<0.010		mg/kg		0.01	19-JUL-23
Bismuth (Bi)-Total			<0.010		mg/kg		0.01	19-JUL-23
Boron (B)-Total			<1.0		mg/kg		1	19-JUL-23
Cadmium (Cd)-Total			<0.0050		mg/kg		0.005	19-JUL-23
Calcium (Ca)-Total			<20		mg/kg		20	19-JUL-23
Cesium (Cs)-Total			<0.0050		mg/kg		0.005	19-JUL-23
Chromium (Cr)-Total			<0.050		mg/kg		0.05	19-JUL-23
Cobalt (Co)-Total			<0.020		mg/kg		0.02	19-JUL-23
Copper (Cu)-Total			<0.10		mg/kg		0.1	19-JUL-23
Iron (Fe)-Total			<3.0		mg/kg		3	19-JUL-23
Lead (Pb)-Total			<0.020		mg/kg		0.02	19-JUL-23
Lithium (Li)-Total			<0.50		mg/kg		0.5	19-JUL-23
Magnesium (Mg)-Total			<2.0		mg/kg		2	19-JUL-23
Manganese (Mn)-Total			<0.050		mg/kg		0.05	19-JUL-23
Molybdenum (Mo)-Total			<0.020		mg/kg		0.02	19-JUL-23
Nickel (Ni)-Total			<0.20		mg/kg		0.2	19-JUL-23
Phosphorus (P)-Total			<10		mg/kg		10	19-JUL-23
Potassium (K)-Total			<20		mg/kg		20	19-JUL-23
Rubidium (Rb)-Total			<0.050		mg/kg		0.05	19-JUL-23
Selenium (Se)-Total			<0.050		mg/kg		0.05	19-JUL-23
Sodium (Na)-Total			<20		mg/kg		20	19-JUL-23
Strontium (Sr)-Total			<0.050		mg/kg		0.05	19-JUL-23
Tellurium (Te)-Total			<0.020		mg/kg		0.02	19-JUL-23
Thallium (Tl)-Total			<0.0020		mg/kg		0.002	19-JUL-23

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-DRY-CCMS-N-VA	**Tissue**							
Batch R5964066								
WG3786211-1 MB								
Tin (Sn)-Total			<0.10		mg/kg		0.1	19-JUL-23
Uranium (U)-Total			<0.0020		mg/kg		0.002	19-JUL-23
Vanadium (V)-Total			<0.10		mg/kg		0.1	19-JUL-23
Zinc (Zn)-Total			<0.50		mg/kg		0.5	19-JUL-23
Zirconium (Zr)-Total			<0.20		mg/kg		0.2	19-JUL-23
Batch R5964085								
WG3786243-2 DUP		**L2751405-44**						
Aluminum (Al)-Total		312	275		mg/kg	13	40	20-JUL-23
Antimony (Sb)-Total		0.053	0.051		mg/kg	2.8	40	20-JUL-23
Arsenic (As)-Total		0.258	0.243		mg/kg	6.1	40	20-JUL-23
Barium (Ba)-Total		5.44	4.86		mg/kg	11	40	20-JUL-23
Beryllium (Be)-Total		0.010	<0.010	RPD-NA	mg/kg	N/A	40	20-JUL-23
Bismuth (Bi)-Total		0.011	0.010		mg/kg	7.4	40	20-JUL-23
Boron (B)-Total		<1.0	<1.0	RPD-NA	mg/kg	N/A	40	20-JUL-23
Cadmium (Cd)-Total		0.0213	0.0202		mg/kg	5.5	40	20-JUL-23
Calcium (Ca)-Total		265	232		mg/kg	13	60	20-JUL-23
Cesium (Cs)-Total		0.0360	0.0339		mg/kg	5.9	40	20-JUL-23
Chromium (Cr)-Total		0.697	0.671		mg/kg	3.8	40	20-JUL-23
Cobalt (Co)-Total		0.156	0.140		mg/kg	11	40	20-JUL-23
Copper (Cu)-Total		1.75	1.64		mg/kg	6.4	40	20-JUL-23
Iron (Fe)-Total		383	358		mg/kg	6.6	40	20-JUL-23
Lead (Pb)-Total		0.655	0.634		mg/kg	3.2	40	20-JUL-23
Lithium (Li)-Total		<0.50	<0.50	RPD-NA	mg/kg	N/A	40	20-JUL-23
Magnesium (Mg)-Total		107	100		mg/kg	6.3	40	20-JUL-23
Manganese (Mn)-Total		23.1	21.5		mg/kg	7.0	40	20-JUL-23
Molybdenum (Mo)-Total		0.407	0.412		mg/kg	1.2	40	20-JUL-23
Nickel (Ni)-Total		0.59	0.53		mg/kg	10	40	20-JUL-23
Phosphorus (P)-Total		230	215		mg/kg	6.6	40	20-JUL-23
Potassium (K)-Total		231	214		mg/kg	7.5	40	20-JUL-23
Rubidium (Rb)-Total		0.652	0.600		mg/kg	8.4	40	20-JUL-23
Selenium (Se)-Total		0.100	0.092		mg/kg	8.0	40	20-JUL-23
Sodium (Na)-Total		<20	<20	RPD-NA	mg/kg	N/A	40	20-JUL-23
Strontium (Sr)-Total		0.999	0.905		mg/kg	9.9	60	20-JUL-23
Tellurium (Te)-Total		<0.020	<0.020	RPD-NA	mg/kg	N/A	40	20-JUL-23

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-DRY-CCMS-N-VA	**Tissue**							
Batch R5964085								
WG3786243-2 DUP		**L2751405-44**						
Thallium (Tl)-Total		0.0032	0.0028		mg/kg	14	40	20-JUL-23
Tin (Sn)-Total		0.87	1.04		mg/kg	18	40	20-JUL-23
Uranium (U)-Total		0.0390	0.0378		mg/kg	3.2	40	20-JUL-23
Vanadium (V)-Total		0.71	0.63		mg/kg	12	40	20-JUL-23
Zinc (Zn)-Total		6.36	6.23		mg/kg	2.1	40	20-JUL-23
Zirconium (Zr)-Total		0.77	0.58		mg/kg	29	40	20-JUL-23
WG3786243-3 LCS								
Aluminum (Al)-Total			107.4		%		80-120	20-JUL-23
Antimony (Sb)-Total			107.8		%		80-120	20-JUL-23
Arsenic (As)-Total			109.2		%		80-120	20-JUL-23
Barium (Ba)-Total			106.7		%		80-120	20-JUL-23
Beryllium (Be)-Total			107.5		%		80-120	20-JUL-23
Bismuth (Bi)-Total			104.0		%		80-120	20-JUL-23
Boron (B)-Total			99.0		%		80-120	20-JUL-23
Cadmium (Cd)-Total			101.7		%		80-120	20-JUL-23
Calcium (Ca)-Total			109.6		%		80-120	20-JUL-23
Cesium (Cs)-Total			107.4		%		80-120	20-JUL-23
Chromium (Cr)-Total			105.9		%		80-120	20-JUL-23
Cobalt (Co)-Total			105.6		%		80-120	20-JUL-23
Copper (Cu)-Total			102.5		%		80-120	20-JUL-23
Iron (Fe)-Total			107.0		%		80-120	20-JUL-23
Lead (Pb)-Total			106.8		%		80-120	20-JUL-23
Lithium (Li)-Total			111.5		%		80-120	20-JUL-23
Magnesium (Mg)-Total			106.7		%		80-120	20-JUL-23
Manganese (Mn)-Total			105.6		%		80-120	20-JUL-23
Molybdenum (Mo)-Total			107.1		%		80-120	20-JUL-23
Nickel (Ni)-Total			105.6		%		80-120	20-JUL-23
Phosphorus (P)-Total			114.9		%		80-120	20-JUL-23
Potassium (K)-Total			107.7		%		80-120	20-JUL-23
Rubidium (Rb)-Total			108.0		%		80-120	20-JUL-23
Selenium (Se)-Total			104.8		%		80-120	20-JUL-23
Sodium (Na)-Total			104.2		%		80-120	20-JUL-23
Strontium (Sr)-Total			109.6		%		80-120	20-JUL-23
Tellurium (Te)-Total			103.6		%		80-120	20-JUL-23

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-DRY-CCMS-N-VA	**Tissue**							
Batch R5964085								
WG3786243-3 LCS								
Thallium (Tl)-Total			105.4		%		80-120	20-JUL-23
Tin (Sn)-Total			100.4		%		80-120	20-JUL-23
Uranium (U)-Total			109.9		%		80-120	20-JUL-23
Vanadium (V)-Total			107.7		%		80-120	20-JUL-23
Zinc (Zn)-Total			98.3		%		80-120	20-JUL-23
Zirconium (Zr)-Total			106.5		%		80-120	20-JUL-23
WG3786243-1 MB								
Aluminum (Al)-Total			<2.0		mg/kg		2	20-JUL-23
Antimony (Sb)-Total			<0.010		mg/kg		0.01	20-JUL-23
Arsenic (As)-Total			<0.020		mg/kg		0.02	20-JUL-23
Barium (Ba)-Total			<0.050		mg/kg		0.05	20-JUL-23
Beryllium (Be)-Total			<0.010		mg/kg		0.01	20-JUL-23
Bismuth (Bi)-Total			<0.010		mg/kg		0.01	20-JUL-23
Boron (B)-Total			<1.0		mg/kg		1	20-JUL-23
Cadmium (Cd)-Total			<0.0050		mg/kg		0.005	20-JUL-23
Calcium (Ca)-Total			<20		mg/kg		20	20-JUL-23
Cesium (Cs)-Total			<0.0050		mg/kg		0.005	20-JUL-23
Chromium (Cr)-Total			<0.050		mg/kg		0.05	20-JUL-23
Cobalt (Co)-Total			<0.020		mg/kg		0.02	20-JUL-23
Copper (Cu)-Total			<0.10		mg/kg		0.1	20-JUL-23
Iron (Fe)-Total			<3.0		mg/kg		3	20-JUL-23
Lead (Pb)-Total			<0.020		mg/kg		0.02	20-JUL-23
Lithium (Li)-Total			<0.50		mg/kg		0.5	20-JUL-23
Magnesium (Mg)-Total			<2.0		mg/kg		2	20-JUL-23
Manganese (Mn)-Total			<0.050		mg/kg		0.05	20-JUL-23
Molybdenum (Mo)-Total			<0.020		mg/kg		0.02	20-JUL-23
Nickel (Ni)-Total			<0.20		mg/kg		0.2	20-JUL-23
Phosphorus (P)-Total			<10		mg/kg		10	20-JUL-23
Potassium (K)-Total			<20		mg/kg		20	20-JUL-23
Rubidium (Rb)-Total			<0.050		mg/kg		0.05	20-JUL-23
Selenium (Se)-Total			<0.050		mg/kg		0.05	20-JUL-23
Sodium (Na)-Total			<20		mg/kg		20	20-JUL-23
Strontium (Sr)-Total			<0.050		mg/kg		0.05	20-JUL-23
Tellurium (Te)-Total			<0.020		mg/kg		0.02	20-JUL-23

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-DRY-CCMS-N-VA	**Tissue**							
Batch R5964085								
WG3786243-1 MB								
Thallium (Tl)-Total			<0.0020		mg/kg		0.002	20-JUL-23
Tin (Sn)-Total			<0.10		mg/kg		0.1	20-JUL-23
Uranium (U)-Total			<0.0020		mg/kg		0.002	20-JUL-23
Vanadium (V)-Total			<0.10		mg/kg		0.1	20-JUL-23
Zinc (Zn)-Total			<0.50		mg/kg		0.5	20-JUL-23
Zirconium (Zr)-Total			<0.20		mg/kg		0.2	20-JUL-23
MOISTURE-BU	**Tissue**							
Batch R5965039								
WG3786293-3 DUP		**L2751405-2**						
% Moisture		80.0	80.3		%	0.3	50	03-AUG-23
WG3786293-2 LCS								
% Moisture			100.9		%		50-150	03-AUG-23
WG3786293-1 MB								
% Moisture			<0.10		%		0.1	03-AUG-23
MOISTURE-TISS-VA	**Tissue**							
Batch R5962897								
WG3785966-3 DUP		**L2751405-40**						
% Moisture		85.8	85.5		%	0.3	20	11-JUL-23
WG3785966-2 LCS								
% Moisture			100.0		%		90-110	11-JUL-23
WG3785966-1 MB								
% Moisture			<0.50		%		0.5	11-JUL-23
Batch R5963336								
WG3786095-3 DUP		**L2751405-43**						
% Moisture		50.6	50.1		%	1.0	20	12-JUL-23
WG3786095-2 LCS								
% Moisture			100.0		%		90-110	12-JUL-23
WG3786095-1 MB								
% Moisture			<0.50		%		0.5	12-JUL-23
Batch R5963338								
WG3785964-3 DUP		**L2751405-2**						
% Moisture		83.0	84.6		%	2.0	20	12-JUL-23
WG3785964-2 LCS								
% Moisture			99.8		%		90-110	12-JUL-23
WG3785964-1 MB								
% Moisture			<0.50		%		0.5	12-JUL-23

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
N-TOT-LECO-SK	**Tissue**							
Batch R5964216								
WG3786254-1 DUP		**L2751405-12**						
Total Nitrogen by Leco		1.43	1.47		%	3.2	10	21-JUL-23
WG3786254-2 IRM		**IH-10**						
Total Nitrogen by Leco			100.6		%		90-110	21-JUL-23
WG3786254-4 LCS		**SULFADIAZINE**						
Total Nitrogen by Leco			102.4		%		90-110	21-JUL-23
WG3786254-3 MB								
Total Nitrogen by Leco			<0.050		%		0.05	21-JUL-23
PCB-1668C-O2-HRMS-BU	**Tissue**							
Batch R5967736								
WG3786661-4 DUP		**L2751405-4**						
PCB 1		6.9	8.5		pg/g wwt	21	50	01-SEP-23
PCB 2		4.0	12.9	J,G	pg/g wwt	8.9	5.2	01-SEP-23
PCB 3		14.1	16.0		pg/g wwt	13	50	01-SEP-23
PCB 4		<12	<12	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 10		<5.2	<5.0	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 9		<5.4	<5.2	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 7		<5.2	<5.1	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 6		15.0	<5.3	G	pg/g wwt	N/A	50	01-SEP-23
PCB 5		<5.4	<5.3	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 8		30.0	34.4		pg/g wwt	14	50	01-SEP-23
PCB 14		<13	<12	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 11		153	169		pg/g wwt	9.9	50	01-SEP-23
PCB 13/12		<11	<10	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 15		20.0	17.0		pg/g wwt	16	50	01-SEP-23
PCB 19		<9.1	<6.0	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 30/18		25.0	26.0		pg/g wwt	3.9	50	01-SEP-23
PCB 17		12.9	8.8		pg/g wwt	38	50	01-SEP-23
PCB 27		<4.0	<4.8	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 24		<4.3	<5.1	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 16		7.6	15.4	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 32		7.5	6.8		pg/g wwt	9.7	50	01-SEP-23
PCB 34		<7.7	<6.5	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 23		<7.5	<6.3	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 29/26		<7.0	<5.9	RPD-NA	pg/g wwt	N/A	50	01-SEP-23

COMMENTS: Replication criteria for the sample and duplicate showed as outside the method limits for several compounds that were detected at

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PCB-1668C-O2-HRMS-BU	**Tissue**							
Batch R5967736								
WG3786661-4 DUP		**L2751405-4**						
PCB 25		<6.7	<5.6	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 31		38.6	33.0		pg/g wwt	16	50	01-SEP-23
PCB 28/20		46.0	47.5		pg/g wwt	3.2	50	01-SEP-23
PCB 21/33		28.5	22.0		pg/g wwt	26	50	01-SEP-23
PCB 22		17.2	9.7	J	pg/g wwt	7.5	15	01-SEP-23
PCB 36		<6.4	<5.4	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 39		<7.4	<6.2	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 38		27.2	27.0		pg/g wwt	0.7	50	01-SEP-23
PCB 35		<7.7	<6.5	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 37		18.0	19.3		pg/g wwt	7.0	50	01-SEP-23
PCB 54		<3.6	<2.2	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 50/53		<6.2	<6.4	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 45/51		11.0	6.7		pg/g wwt	49	50	01-SEP-23
PCB 46		<7.0	<7.2	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 52		57.0	38.6		pg/g wwt	38	50	01-SEP-23
PCB 73		<4.3	<4.4	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 43		<7.5	<7.7	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 69/49		19.0	20.7		pg/g wwt	8.6	50	01-SEP-23
PCB 48		11.0	<6.3	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 44/47/65		57.4	46.9		pg/g wwt	20	50	01-SEP-23
PCB 59/62/75		<4.6	6.4	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 42		<6.6	<6.8	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 41/71/40		25.0	20.0		pg/g wwt	22	50	01-SEP-23
PCB 64		17.0	16.0		pg/g wwt	6.1	50	01-SEP-23
PCB 72		<4.5	<4.0	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 68		<4.6	<4.1	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 57		<5.0	<4.4	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 58		<4.8	<4.2	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 67		<4.2	<3.7	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 63		<4.9	<4.4	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 61/70/74/76		58.7	49.6		pg/g wwt	17	50	01-SEP-23
PCB 66		31.1	32.0		pg/g wwt	2.9	50	01-SEP-23
PCB 55		<5.0	<4.4	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 56		15.0	13.8		pg/g wwt	8.3	50	01-SEP-23

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PCB-1668C-O2-HRMS-BU	**Tissue**							
Batch R5967736								
WG3786661-4 DUP		**L2751405-4**						
PCB 60		9.4	7.3		pg/g wwt	25	50	01-SEP-23
PCB 80		<4.0	<3.6	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 79		<4.3	<3.8	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 78		<5.5	<4.9	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 81		<4.6	<4.1	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 77		12.0	10.3		pg/g wwt	15	50	01-SEP-23
PCB 104		<2.2	<2.1	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 96		<2.8	<2.6	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 103		<4.8	<5.4	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 94		<5.0	<5.6	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 95		56.0	53.8		pg/g wwt	4.0	50	01-SEP-23
PCB 100/93/102/98		<4.5	<5.1	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 88/91		14.7	8.2	J	pg/g wwt	6.5	11.2	01-SEP-23
PCB 84		15.4	6.9	J	pg/g wwt	8.5	11.6	01-SEP-23
PCB 89		<6.2	<6.9	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 121		<3.4	<3.8	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 92		18.0	15.0		pg/g wwt	18	50	01-SEP-23
PCB 113/90/101		79.3	74.6		pg/g wwt	6.1	50	01-SEP-23
PCB 83/99		54.6	46.0		pg/g wwt	17	50	01-SEP-23
PCB 112		<3.1	<3.5	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 109/119/86/97/125/87		37.0	29.0		pg/g wwt	24	50	01-SEP-23
PCB 117/116/85/110/115		98.0	120		pg/g wwt	20	50	01-SEP-23
PCB 82		<6.0	<6.7	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 111		<3.4	<3.8	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 120		<3.6	<4.0	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 108/124		<3.2	<3.4	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 107		6.2	3.1	J	pg/g wwt	3.1	5.4	01-SEP-23
PCB 123		<3.2	<3.4	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 106		<3.6	<3.9	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 118		74.7	60.0		pg/g wwt	22	50	01-SEP-23
PCB 122		<4.3	<4.6	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 114		<3.3	<3.4	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 105		36.0	38.2		pg/g wwt	5.9	50	01-SEP-23
PCB 127		<3.1	<3.4	RPD-NA	pg/g wwt	N/A	50	01-SEP-23

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PCB-1668C-O2-HRMS-BU	**Tissue**							
Batch R5967736								
WG3786661-4 DUP		**L2751405-4**						
PCB 126		<3.3	<3.6	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 155		<1.8	<1.9	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 152		<2.3	<2.4	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 150		<2.2	<2.3	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 136		10.3	10.6		pg/g wwt	2.9	50	01-SEP-23
PCB 145		<2.4	<2.5	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 148		<3.5	<3.6	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 151/135		32.5	31.0		pg/g wwt	4.7	50	01-SEP-23
PCB 154		<2.6	<2.7	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 144		5.7	5.7		pg/g wwt	0.0	50	01-SEP-23
PCB 147/149		69.6	65.8		pg/g wwt	5.6	50	01-SEP-23
PCB 134/143		<4.4	<3.5	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 139/140		<3.5	<2.8	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 131		<4.4	<3.5	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 142		<4.7	<3.8	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 132		20.6	25.0		pg/g wwt	19	50	01-SEP-23
PCB 133		<4.3	<3.5	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 165		<3.1	<2.5	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 146		17.0	13.0		pg/g wwt	27	50	01-SEP-23
PCB 161		<3.0	<2.4	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 168/153		79.2	73.2		pg/g wwt	7.9	50	01-SEP-23
PCB 141		15.0	15.0		pg/g wwt	0.0	50	01-SEP-23
PCB 130		<4.5	<3.6	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 137/164		<3.2	10.0	G	pg/g wwt	N/A	50	01-SEP-23
PCB 138/163/129		97.6	91.0		pg/g wwt	7.0	50	01-SEP-23
PCB 160		<3.1	<2.5	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 158		8.6	9.1		pg/g wwt	5.6	50	01-SEP-23
PCB 128/166		17.3	14.0		pg/g wwt	21	50	01-SEP-23
PCB 159		<2.7	<2.2	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 162		<2.8	<2.3	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 167		<2.8	3.5	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 156/157		<3.7	7.4	G	pg/g wwt	N/A	50	01-SEP-23
PCB 169		<2.9	<2.4	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 188		<3.8	<3.2	RPD-NA	pg/g wwt	N/A	50	01-SEP-23

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PCB-1668C-O2-HRMS-BU	**Tissue**							
Batch R5967736								
WG3786661-4 DUP		**L2751405-4**						
PCB 179		8.7	9.5		pg/g wwt	9.1	50	01-SEP-23
PCB 184		<3.9	<3.5	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 176		<4.3	<3.9	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 186		<4.2	<3.8	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 178		<6.1	<5.6	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 175		<5.7	<5.2	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 187		20.5	23.0		pg/g wwt	11	50	01-SEP-23
PCB 182		<5.3	<4.8	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 183		14.8	10.0		pg/g wwt	39	50	01-SEP-23
PCB 185		<5.5	<5.0	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 174		17.1	12.0		pg/g wwt	35	50	01-SEP-23
PCB 177		9.7	7.9		pg/g wwt	20	50	01-SEP-23
PCB 181		<5.5	<5.0	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 171/173		<5.8	<5.3	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 172		<5.8	<5.3	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 192		<4.7	<4.3	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 180/193		26.0	35.0		pg/g wwt	30	50	01-SEP-23
PCB 191		<4.4	<4.0	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 170		8.8	11.0		pg/g wwt	22	50	01-SEP-23
PCB 190		<4.0	<3.6	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 189		<2.1	<3.3	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 202		<2.2	<2.4	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 201		<2.2	<2.3	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 204		<2.3	<2.4	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 197		<2.3	<2.4	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 200		<2.6	<2.7	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 198/199		<3.5	4.6	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 196		<3.3	<3.5	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 203		<3.2	<3.4	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 195		<4.6	<3.7	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 194		<4.5	4.1	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 205		<3.8	<2.9	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 208		<7.9	<7.4	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
PCB 207		<9.2	<8.3	RPD-NA	pg/g wwt	N/A	50	01-SEP-23

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PCB-1668C-O2-HRMS-BU	**Tissue**							
Batch R5967736								
WG3786661-4 DUP		**L2751405-4**						
PCB 206		<15	<13	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
Total MonoCB		25.0	37.4		pg/g wwt	40	50	01-SEP-23
Total DiCB		218	220		pg/g wwt	0.9	50	01-SEP-23
Total TriCB		228	216		pg/g wwt	5.4	50	01-SEP-23
Total TetraCB		324	268		pg/g wwt	19	50	01-SEP-23
Total PentaCB		490	455		pg/g wwt	7.4	50	01-SEP-23
Total HexaCB		373	374		pg/g wwt	0.3	50	01-SEP-23
Total HeptaCB		106	108		pg/g wwt	1.9	50	01-SEP-23
Total OctaCB		<2.2	8.7	G	pg/g wwt	N/A	50	01-SEP-23
Total NonaCB		<7.9	<7.4	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
DecaCB		<30	<47	RPD-NA	pg/g wwt	N/A	50	01-SEP-23
Total PCB		1760	1690		pg/g wwt	4.1	50	01-SEP-23
COMMENTS: Replication criteria for the sample and duplicate showed as outside the method limits for several compounds that were detected at levels below the Lower Quantitation Limit. At these low levels, this is not considered a DQO failure.								
WG3786661-4 DUP		**L2751405-4**						
PCB 209		<30	<47	RPD-NA	pg/g wwt	N/A	50	02-SEP-23
WG3786661-2 LCS								
PCB 1			111.0		%		60-135	01-SEP-23
PCB 3			98.0		%		60-135	01-SEP-23
PCB 4			115.0		%		60-135	01-SEP-23
PCB 15			103.0		%		60-135	01-SEP-23
PCB 19			116.0		%		60-135	01-SEP-23
PCB 37			103.0		%		60-135	01-SEP-23
PCB 54			109.0		%		60-135	01-SEP-23
PCB 81			95.0		%		60-135	01-SEP-23
PCB 77			92.0		%		60-135	01-SEP-23
PCB 104			92.0		%		60-135	01-SEP-23
PCB 123			98.0		%		60-135	01-SEP-23
PCB 118			96.0		%		60-135	01-SEP-23
PCB 114			100.0		%		60-135	01-SEP-23
PCB 105			92.0		%		60-135	01-SEP-23
PCB 126			95.0		%		60-135	01-SEP-23
PCB 155			99.0		%		60-135	01-SEP-23
PCB 167			96.0		%		60-135	01-SEP-23
PCB 156/157			97.0		%		60-135	01-SEP-23

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PCB-1668C-O2-HRMS-BU	**Tissue**							
Batch R5967736								
WG3786661-2 LCS								
PCB 169			96.0		%		60-135	01-SEP-23
PCB 188			99.0		%		60-135	01-SEP-23
PCB 189			96.0		%		60-135	01-SEP-23
PCB 202			107.0		%		60-135	01-SEP-23
PCB 205			93.0		%		60-135	01-SEP-23
PCB 208			95.0		%		60-135	01-SEP-23
PCB 206			94.0		%		60-135	01-SEP-23
PCB 209			107.0		%		60-135	01-SEP-23
WG3786661-1 MB								
PCB 1			11.0	[J]	pg/g wwt		100	01-SEP-23
PCB 2			<3.8	[U]	pg/g wwt		100	01-SEP-23
PCB 3			5.3		pg/g wwt		100	01-SEP-23
PCB 4			<25	[U]	pg/g wwt		100	01-SEP-23
PCB 10			<8.6	[U]	pg/g wwt		100	01-SEP-23
PCB 9			<9.0	[U]	pg/g wwt		100	01-SEP-23
PCB 7			<8.7	[U]	pg/g wwt		100	01-SEP-23
PCB 6			17.0		pg/g wwt		100	01-SEP-23
PCB 5			<9.1	[U]	pg/g wwt		100	01-SEP-23
PCB 8			50.1	M	pg/g wwt		100	01-SEP-23
PCB 14			<20	[U]	pg/g wwt		100	01-SEP-23
PCB 11			122	A	pg/g wwt		100	01-SEP-23
PCB 13/12			<17	[U]	pg/g wwt		100	01-SEP-23
PCB 15			33		pg/g wwt		100	01-SEP-23
PCB 19			<11	[U]	pg/g wwt		100	01-SEP-23
PCB 30/18			24.0		pg/g wwt		100	01-SEP-23
PCB 17			11.0		pg/g wwt		100	01-SEP-23
PCB 27			<4.9	[U]	pg/g wwt		100	01-SEP-23
PCB 24			<5.2	[U]	pg/g wwt		100	01-SEP-23
PCB 16			11.0		pg/g wwt		100	01-SEP-23
PCB 32			9.3		pg/g wwt		100	01-SEP-23
PCB 34			<7.7	[U]	pg/g wwt		100	01-SEP-23
PCB 23			<7.5	[U]	pg/g wwt		100	01-SEP-23
PCB 29/26			9.5		pg/g wwt		100	01-SEP-23
PCB 25			<6.6		pg/g wwt		100	01-SEP-23

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PCB-1668C-O2-HRMS-BU	**Tissue**							
Batch R5967736								
WG3786661-1 MB								
PCB 31			38.8		pg/g wwt		100	01-SEP-23
PCB 28/20			53.0	R	pg/g wwt		100	01-SEP-23
PCB 21/33			26.0		pg/g wwt		100	01-SEP-23
PCB 22			19.8	[J]	pg/g wwt		100	01-SEP-23
PCB 36			<6.4	[U]	pg/g wwt		100	01-SEP-23
PCB 39			<7.4	[U]	pg/g wwt		100	01-SEP-23
PCB 38			<7.4	[U]	pg/g wwt		100	01-SEP-23
PCB 35			<7.7	[U]	pg/g wwt		100	01-SEP-23
PCB 37			25.0		pg/g wwt		100	01-SEP-23
PCB 54			<3.9	[U]	pg/g wwt		100	01-SEP-23
PCB 50/53			<5.8	[U]	pg/g wwt		100	01-SEP-23
PCB 45/51			11.0	[J]	pg/g wwt		100	01-SEP-23
PCB 46			<6.5	[U]	pg/g wwt		100	01-SEP-23
PCB 52			29.2	[J]	pg/g wwt		100	01-SEP-23
PCB 73			<4.0	[U]	pg/g wwt		100	01-SEP-23
PCB 43			<6.9	[U]	pg/g wwt		100	01-SEP-23
PCB 69/49			13.1		pg/g wwt		100	01-SEP-23
PCB 48			6.2	[J]	pg/g wwt		100	01-SEP-23
PCB 44/47/65			31.0		pg/g wwt		100	01-SEP-23
PCB 59/62/75			<4.2	[U]	pg/g wwt		100	01-SEP-23
PCB 42			9.7		pg/g wwt		100	01-SEP-23
PCB 41/71/40			56.5	M	pg/g wwt		100	01-SEP-23
PCB 64			11.0		pg/g wwt		100	01-SEP-23
PCB 72			<3.9	[U]	pg/g wwt		100	01-SEP-23
PCB 68			<4.0	[U]	pg/g wwt		100	01-SEP-23
PCB 57			<4.4	[U]	pg/g wwt		100	01-SEP-23
PCB 58			<4.2	[U]	pg/g wwt		100	01-SEP-23
PCB 67			<3.6	[U]	pg/g wwt		100	01-SEP-23
PCB 63			<4.3	[U]	pg/g wwt		100	01-SEP-23
PCB 61/70/74/76			33.9		pg/g wwt		100	01-SEP-23
PCB 66			14.0		pg/g wwt		100	01-SEP-23
PCB 55			<4.4	[U]	pg/g wwt		100	01-SEP-23
PCB 56			39.0		pg/g wwt		100	01-SEP-23
PCB 60			5.7		pg/g wwt		100	01-SEP-23

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PCB-1668C-O2-HRMS-BU	**Tissue**							
Batch R5967736								
WG3786661-1 MB								
PCB 80			<3.5	[U]	pg/g wwt		100	01-SEP-23
PCB 79			<3.7	[U]	pg/g wwt		100	01-SEP-23
PCB 78			<4.8	[U]	pg/g wwt		100	01-SEP-23
PCB 81			<3.5	[U]	pg/g wwt		100	01-SEP-23
PCB 77			<3.6	[U]	pg/g wwt		100	01-SEP-23
PCB 104			<2.5	[U]	pg/g wwt		100	01-SEP-23
PCB 96			<2.4	[U]	pg/g wwt		100	01-SEP-23
PCB 103			<3.7	[U]	pg/g wwt		100	01-SEP-23
PCB 94			<3.9	[U]	pg/g wwt		100	01-SEP-23
PCB 95			20.3	[J]	pg/g wwt		100	01-SEP-23
PCB 100/93/102/98			<3.5	[U]	pg/g wwt		100	01-SEP-23
PCB 88/91			<3.9	[U]	pg/g wwt		100	01-SEP-23
PCB 84			<4.0	[U]	pg/g wwt		100	01-SEP-23
PCB 89			<4.8	[U]	pg/g wwt		100	01-SEP-23
PCB 121			<2.6	[U]	pg/g wwt		100	01-SEP-23
PCB 92			<4.3	[U]	pg/g wwt		100	01-SEP-23
PCB 113/90/101			19.8	[J]	pg/g wwt		100	01-SEP-23
PCB 83/99			16.1	[J]	pg/g wwt		100	01-SEP-23
PCB 112			<2.5	[U]	pg/g wwt		100	01-SEP-23
PCB 109/119/86/97/125/87			14.3		pg/g wwt		100	01-SEP-23
PCB 117/116/85/110/115			33.0		pg/g wwt		100	01-SEP-23
PCB 82			<4.6	[U]	pg/g wwt		100	01-SEP-23
PCB 111			<2.6	[U]	pg/g wwt		100	01-SEP-23
PCB 120			<2.8	[U]	pg/g wwt		100	01-SEP-23
PCB 108/124			<2.7	[U]	pg/g wwt		100	01-SEP-23
PCB 107			<2.1	[U]	pg/g wwt		100	01-SEP-23
PCB 123			<2.5	[U]	pg/g wwt		100	01-SEP-23
PCB 106			<3.1	[U]	pg/g wwt		100	01-SEP-23
PCB 118			19.0		pg/g wwt		100	01-SEP-23
PCB 122			<3.6	[U]	pg/g wwt		100	01-SEP-23
PCB 114			<2.6	[U]	pg/g wwt		100	01-SEP-23
PCB 105			3.5		pg/g wwt		100	01-SEP-23
PCB 127			<2.7	[U]	pg/g wwt		100	01-SEP-23

COMMENTS: Selected targets fail report limit criteria for the method blank.

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PCB-1668C-O2-HRMS-BU	**Tissue**							
Batch R5967736								
WG3786661-1 MB								
PCB 126			<2.4	[U]	pg/g wwt		100	01-SEP-23
PCB 155			<1.9	[U]	pg/g wwt		100	01-SEP-23
PCB 152			<1.9	[U]	pg/g wwt		100	01-SEP-23
PCB 150			<1.8	[U]	pg/g wwt		100	01-SEP-23
PCB 136			<2.2	[U]	pg/g wwt		100	01-SEP-23
PCB 145			<2.0	[U]	pg/g wwt		100	01-SEP-23
PCB 148			<2.9	[U]	pg/g wwt		100	01-SEP-23
PCB 151/135			6.5		pg/g wwt		100	01-SEP-23
PCB 154			<2.1	[U]	pg/g wwt		100	01-SEP-23
PCB 144			<2.9	[U]	pg/g wwt		100	01-SEP-23
PCB 147/149			9.7		pg/g wwt		100	01-SEP-23
PCB 134/143			<3.0	[U]	pg/g wwt		100	01-SEP-23
PCB 139/140			<2.4	[U]	pg/g wwt		100	01-SEP-23
PCB 131			<3.0	[U]	pg/g wwt		100	01-SEP-23
PCB 142			<3.3	[U]	pg/g wwt		100	01-SEP-23
PCB 132			3.7		pg/g wwt		100	01-SEP-23
PCB 133			<3.0	[U]	pg/g wwt		100	01-SEP-23
PCB 165			<2.1	[U]	pg/g wwt		100	01-SEP-23
PCB 146			<2.3	[U]	pg/g wwt		100	01-SEP-23
PCB 161			<2.1	[U]	pg/g wwt		100	01-SEP-23
PCB 168/153			14.0		pg/g wwt		100	01-SEP-23
PCB 141			3.2		pg/g wwt		100	01-SEP-23
PCB 130			<3.1	[U]	pg/g wwt		100	01-SEP-23
PCB 137/164			<2.2	[U]	pg/g wwt		100	01-SEP-23
PCB 138/163/129			16.3		pg/g wwt		100	01-SEP-23
PCB 160			<2.1	[U]	pg/g wwt		100	01-SEP-23
PCB 158			<1.8	[U]	pg/g wwt		100	01-SEP-23
PCB 128/166			3.1		pg/g wwt		100	01-SEP-23
PCB 159			<1.9	[U]	pg/g wwt		100	01-SEP-23
PCB 162			<2.0	[U]	pg/g wwt		100	01-SEP-23
PCB 167			<1.9	[U]	pg/g wwt		100	01-SEP-23
PCB 156/157			<2.4	[U]	pg/g wwt		200	01-SEP-23
PCB 169			<1.9		pg/g wwt		100	01-SEP-23
PCB 188			<2.1	[U]	pg/g wwt		100	01-SEP-23

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PCB-1668C-O2-HRMS-BU	**Tissue**							
Batch R5967736								
WG3786661-1 MB								
PCB 179			<2.1		pg/g wwt		100	01-SEP-23
PCB 184			<2.0	[U]	pg/g wwt		100	01-SEP-23
PCB 176			<2.2	[U]	pg/g wwt		100	01-SEP-23
PCB 186			<2.1	[U]	pg/g wwt		100	01-SEP-23
PCB 178			<3.1	[U]	pg/g wwt		100	01-SEP-23
PCB 175			<2.9	[U]	pg/g wwt		100	01-SEP-23
PCB 187			<2.6	[U]	pg/g wwt		100	01-SEP-23
PCB 182			<2.7	[U]	pg/g wwt		100	01-SEP-23
PCB 183			<2.6	[U]	pg/g wwt		100	01-SEP-23
PCB 185			<2.8	[U]	pg/g wwt		100	01-SEP-23
PCB 174			<2.7	[U]	pg/g wwt		100	01-SEP-23
PCB 177			<3.0	[U]	pg/g wwt		100	01-SEP-23
PCB 181			<2.8	[U]	pg/g wwt		100	01-SEP-23
PCB 171/173			<3.0	[U]	pg/g wwt		100	01-SEP-23
PCB 172			<2.9	[U]	pg/g wwt		100	01-SEP-23
PCB 192			<2.4	[U]	pg/g wwt		100	01-SEP-23
PCB 180/193			4.9		pg/g wwt		100	01-SEP-23
PCB 191			<2.2	[U]	pg/g wwt		100	01-SEP-23
PCB 170			<3.1		pg/g wwt		100	01-SEP-23
PCB 190			<2.0	[U]	pg/g wwt		100	01-SEP-23
PCB 189			<1.5	[U]	pg/g wwt		100	01-SEP-23
PCB 202			<1.7	[U]	pg/g wwt		100	01-SEP-23
PCB 201			<1.6	[U]	pg/g wwt		100	01-SEP-23
PCB 204			<1.6	[U]	pg/g wwt		100	01-SEP-23
PCB 197			<1.6	[U]	pg/g wwt		100	01-SEP-23
PCB 200			<1.8	[U]	pg/g wwt		100	01-SEP-23
PCB 198/199			<2.4	[U]	pg/g wwt		100	01-SEP-23
PCB 196			<2.3	[U]	pg/g wwt		100	01-SEP-23
PCB 203			<2.3	[U]	pg/g wwt		100	01-SEP-23
PCB 195			<2.6	[U]	pg/g wwt		100	01-SEP-23
PCB 194			4.6		pg/g wwt		100	01-SEP-23
PCB 205			<1.9	[U]	pg/g wwt		100	01-SEP-23
PCB 208			<5.2	[U]	pg/g wwt		100	01-SEP-23

COMMENTS: Selected targets fail report limit criteria for the method blank.

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PCB-1668C-O2-HRMS-BU	**Tissue**							
Batch	**R5967736**							
WG3786661-1	**MB**							
PCB 207			<5.7	[U]	pg/g wwt		100	01-SEP-23
PCB 206			<8.8	[U]	pg/g wwt		100	01-SEP-23
PCB 209			2.5		pg/g wwt		100	01-SEP-23
Surrogate: 13C12 PCB 1			11.0		%		5-145	01-SEP-23
Surrogate: 13C12 PCB 3			14.0		%		5-145	01-SEP-23
Surrogate: 13C12 PCB 4			12.0		%		5-145	01-SEP-23
Surrogate: 13C12 PCB 15			18.0		%		5-145	01-SEP-23
Surrogate: 13C12 PCB 19			12.0		%		5-145	01-SEP-23
Surrogate: 13C12 PCB 37			27.0		%		5-145	01-SEP-23
Surrogate: 13C12 PCB 54			13.0		%		5-145	01-SEP-23
Surrogate: 13C12 PCB 81			35.0		%		10-145	01-SEP-23
Surrogate: 13C12 PCB 77			36.0		%		10-145	01-SEP-23
Surrogate: 13C12 PCB 104			21.0		%		10-145	01-SEP-23
Surrogate: 13C12 PCB 123			36.0		%		10-145	01-SEP-23
Surrogate: 13C12 PCB 118			35.0		%		10-145	01-SEP-23
Surrogate: 13C12 PCB 114			34.0		%		10-145	01-SEP-23
Surrogate: 13C12 PCB 105			38.0		%		10-145	01-SEP-23
Surrogate: 13C12 PCB 126			38.0		%		10-145	01-SEP-23
Surrogate: 13C12 PCB 155			26.0		%		10-145	01-SEP-23
Surrogate: 13C12 PCB 167			38.0		%		10-145	01-SEP-23
Surrogate: 13C12 PCB 156/157			37.0		%		10-145	01-SEP-23
Surrogate: 13C12 PCB 169			38.0		%		10-145	01-SEP-23
Surrogate: 13C12 PCB 188			31.0		%		10-145	01-SEP-23
Surrogate: 13C12 PCB 189			40.0		%		10-145	01-SEP-23
Surrogate: 13C12 PCB 202			31.0		%		10-145	01-SEP-23
Surrogate: 13C12 PCB 205			37.0		%		10-145	01-SEP-23
Surrogate: 13C12 PCB 208			34.0		%		10-145	01-SEP-23
Surrogate: 13C12 PCB 206			35.0		%		10-145	01-SEP-23
Surrogate: 13C12 PCB 209			36.0		%		10-145	01-SEP-23
Surrogate: 13C12 PCB 28			33.0		%		5-145	01-SEP-23
Surrogate: 13C12 PCB 111			45.0		%		10-145	01-SEP-23
Surrogate: 13C12 PCB 178			44.0		%		10-145	01-SEP-23
Total MonoCB			16.3	[J]	pg/g wwt		200	01-SEP-23
Total DiCB			222	[J]	pg/g wwt		400	01-SEP-23

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PCB-1668C-O2-HRMS-BU	**Tissue**							
Batch R5967736								
WG3786661-1 MB								
Total TriCB			227	[J]	pg/g wwt		400	01-SEP-23
Total TetraCB			260	[J]	pg/g wwt		800	01-SEP-23
Total PentaCB			126	[J]	pg/g wwt		800	01-SEP-23
Total HexaCB			56.5	[J]	pg/g wwt		800	01-SEP-23
Total HeptaCB			4.9	[J]	pg/g wwt		400	01-SEP-23
Total OctaCB			4.6	[J]	pg/g wwt		400	01-SEP-23
Total NonaCB			<5.2	[U]	pg/g wwt		200	01-SEP-23
DecaCB			2.5	[J]	pg/g wwt		200	01-SEP-23
Total PCB			921	[J]	pg/g wwt		1600	01-SEP-23
COMMENTS: Selected targets fail report limit criteria for the method blank.								
WG3786661-5 MS		**L2751405-4**						
PCB 1			103.0		%		50-150	02-SEP-23
PCB 3			91.0		%		50-150	02-SEP-23
PCB 4			111.0		%		50-150	02-SEP-23
PCB 15			101.0		%		50-150	02-SEP-23
PCB 19			95.0		%		50-150	02-SEP-23
PCB 37			78.0		%		50-150	02-SEP-23
PCB 54			101.0		%		50-150	02-SEP-23
PCB 81			93.0		%		50-150	02-SEP-23
PCB 77			89.0		%		50-150	02-SEP-23
PCB 104			96.0		%		50-150	02-SEP-23
PCB 123			99.0		%		50-150	02-SEP-23
PCB 118			108.0		%		50-150	02-SEP-23
PCB 114			91.0		%		50-150	02-SEP-23
PCB 105			88.0		%		50-150	02-SEP-23
PCB 126			93.0		%		50-150	02-SEP-23
PCB 155			103.0		%		50-150	02-SEP-23
PCB 167			106.0		%		50-150	02-SEP-23
PCB 156/157			95.0		%		50-150	02-SEP-23
PCB 169			100.0		%		50-150	02-SEP-23
PCB 188			95.0		%		50-150	02-SEP-23
PCB 189			95.0		%		50-150	02-SEP-23
PCB 202			96.0		%		50-150	02-SEP-23
PCB 205			92.0		%		50-150	02-SEP-23

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PCB-1668C-O2-HRMS-BU	**Tissue**							
Batch R5967736								
WG3786661-5 MS		**L2751405-4**						
PCB 208			101.0		%		50-150	02-SEP-23
PCB 206			90.0		%		50-150	02-SEP-23
PCB 209			115.0		%		50-150	02-SEP-23
WG3786661-6 MSD		**L2751405-4**						
PCB 1		N/A	102		%	1.0	50	02-SEP-23
PCB 3		N/A	102		%	11	50	02-SEP-23
PCB 4		N/A	123		%	10	50	02-SEP-23
PCB 15		N/A	83		%	20	50	02-SEP-23
PCB 19		N/A	111		%	16	50	02-SEP-23
PCB 37		N/A	84		%	7.4	50	02-SEP-23
PCB 54		N/A	114		%	12	50	02-SEP-23
PCB 81		N/A	91		%	2.2	50	02-SEP-23
PCB 77		N/A	90		%	1.1	50	02-SEP-23
PCB 104		N/A	99	M,R	%	3.1	50	02-SEP-23
PCB 123		N/A	93		%	6.3	50	02-SEP-23
PCB 118		N/A	113		%	4.5	50	02-SEP-23
PCB 114		N/A	112		%	21	50	02-SEP-23
PCB 105		N/A	89		%	1.1	50	02-SEP-23
PCB 126		N/A	96		%	3.2	50	02-SEP-23
PCB 155		N/A	121		%	16	50	02-SEP-23
PCB 167		N/A	95		%	11	50	02-SEP-23
PCB 156/157		N/A	103		%	8.1	50	02-SEP-23
PCB 169		N/A	96		%	4.1	50	02-SEP-23
PCB 188		N/A	99		%	4.1	50	02-SEP-23
PCB 189		N/A	85		%	11	50	02-SEP-23
PCB 202		N/A	104		%	8.0	50	02-SEP-23
PCB 205		N/A	91		%	1.1	50	02-SEP-23
PCB 208		N/A	98		%	3.0	50	02-SEP-23
PCB 206		N/A	95		%	5.4	50	02-SEP-23
PCB 209		N/A	103		%	11	50	02-SEP-23
Batch R5967776								
WG3786292-2 LCS								
PCB 1			111.0		%		60-135	01-SEP-23
PCB 3			98.0		%		60-135	01-SEP-23

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PCB-1668C-O2-HRMS-BU	**Tissue**							
Batch R5967776								
WG3786292-2 LCS								
PCB 4			115.0		%		60-135	01-SEP-23
PCB 15			103.0		%		60-135	01-SEP-23
PCB 19			116.0		%		60-135	01-SEP-23
PCB 37			103.0		%		60-135	01-SEP-23
PCB 54			109.0		%		60-135	01-SEP-23
PCB 81			95.0		%		60-135	01-SEP-23
PCB 77			92.0		%		60-135	01-SEP-23
PCB 104			92.0		%		60-135	01-SEP-23
PCB 123			98.0		%		60-135	01-SEP-23
PCB 118			96.0		%		60-135	01-SEP-23
PCB 114			100.0		%		60-135	01-SEP-23
PCB 105			92.0		%		60-135	01-SEP-23
PCB 126			95.0		%		60-135	01-SEP-23
PCB 155			99.0		%		60-135	01-SEP-23
PCB 167			96.0		%		60-135	01-SEP-23
PCB 156/157			97.0		%		60-135	01-SEP-23
PCB 169			96.0		%		60-135	01-SEP-23
PCB 188			99.0		%		60-135	01-SEP-23
PCB 189			96.0		%		60-135	01-SEP-23
PCB 202			107.0		%		60-135	01-SEP-23
PCB 205			93.0		%		60-135	01-SEP-23
PCB 208			95.0		%		60-135	01-SEP-23
PCB 206			94.0		%		60-135	01-SEP-23
PCB 209			107.0		%		60-135	01-SEP-23
WG3786292-1 MB								
PCB 1			11.0	[J]	pg/g wwt		100	01-SEP-23
PCB 2			<3.8	[U]	pg/g wwt		100	01-SEP-23
PCB 3			5.3	J,R	pg/g wwt		100	01-SEP-23
PCB 4			<25	[U]	pg/g wwt		100	01-SEP-23
PCB 10			<8.6	[U]	pg/g wwt		100	01-SEP-23
PCB 9			<9.0	[U]	pg/g wwt		100	01-SEP-23
PCB 7			<8.7	[U]	pg/g wwt		100	01-SEP-23
PCB 6			17.0	M,J,R	pg/g wwt		100	01-SEP-23
PCB 5			<9.1	[U]	pg/g wwt		100	01-SEP-23

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PCB-1668C-O2-HRMS-BU	**Tissue**							
Batch R5967776								
WG3786292-1 MB								
PCB 8			50.1	M	pg/g wwt		100	01-SEP-23
PCB 14			<20	[U]	pg/g wwt		100	01-SEP-23
PCB 11			122	A	pg/g wwt		100	01-SEP-23
PCB 13/12			<17	[U]	pg/g wwt		100	01-SEP-23
PCB 15			33	M,J,R	pg/g wwt		100	01-SEP-23
PCB 19			<11	[U]	pg/g wwt		100	01-SEP-23
PCB 30/18			24.0	J,R	pg/g wwt		100	01-SEP-23
PCB 17			11.0	M,J,R	pg/g wwt		100	01-SEP-23
PCB 27			<4.9	[U]	pg/g wwt		100	01-SEP-23
PCB 24			<5.2	[U]	pg/g wwt		100	01-SEP-23
PCB 16			11.0	M,J,R	pg/g wwt		100	01-SEP-23
PCB 32			9.3	M,J	pg/g wwt		100	01-SEP-23
PCB 34			<7.7	[U]	pg/g wwt		100	01-SEP-23
PCB 23			<7.5	[U]	pg/g wwt		100	01-SEP-23
PCB 29/26			9.5	M,J,R	pg/g wwt		100	01-SEP-23
PCB 25			<6.6	M,U	pg/g wwt		100	01-SEP-23
PCB 31			38.8	M,J	pg/g wwt		100	01-SEP-23
PCB 28/20			53.0	R	pg/g wwt		100	01-SEP-23
PCB 21/33			26.0	M,J,R	pg/g wwt		100	01-SEP-23
PCB 22			19.8	[J]	pg/g wwt		100	01-SEP-23
PCB 36			<6.4	[U]	pg/g wwt		100	01-SEP-23
PCB 39			<7.4	[U]	pg/g wwt		100	01-SEP-23
PCB 38			<7.4	[U]	pg/g wwt		100	01-SEP-23
PCB 35			<7.7	[U]	pg/g wwt		100	01-SEP-23
PCB 37			25.0	J,R	pg/g wwt		100	01-SEP-23
PCB 54			<3.9	[U]	pg/g wwt		100	01-SEP-23
PCB 50/53			<5.8	[U]	pg/g wwt		100	01-SEP-23
PCB 45/51			11.0	[J]	pg/g wwt		100	01-SEP-23
PCB 46			<6.5	[U]	pg/g wwt		100	01-SEP-23
PCB 52			29.2	[J]	pg/g wwt		100	01-SEP-23
PCB 73			<4.0	[U]	pg/g wwt		100	01-SEP-23
PCB 43			<6.9	[U]	pg/g wwt		100	01-SEP-23
PCB 69/49			13.1	M,J	pg/g wwt		100	01-SEP-23

COMMENTS: Selected target is above report limit criteria

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PCB-1668C-O2-HRMS-BU	**Tissue**							
Batch R5967776								
WG3786292-1 MB								
PCB 48			6.2	[J]	pg/g wwt		100	01-SEP-23
PCB 44/47/65			31.0	J,R	pg/g wwt		100	01-SEP-23
PCB 59/62/75			<4.2	[U]	pg/g wwt		100	01-SEP-23
PCB 42			9.7	J,R	pg/g wwt		100	01-SEP-23
PCB 41/71/40			56.5	M	pg/g wwt		100	01-SEP-23
PCB 64			11.0	J,R	pg/g wwt		100	01-SEP-23
PCB 72			<3.9	[U]	pg/g wwt		100	01-SEP-23
PCB 68			<4.0	[U]	pg/g wwt		100	01-SEP-23
PCB 57			<4.4	[U]	pg/g wwt		100	01-SEP-23
PCB 58			<4.2	[U]	pg/g wwt		100	01-SEP-23
PCB 67			<3.6	[U]	pg/g wwt		100	01-SEP-23
PCB 63			<4.3	[U]	pg/g wwt		100	01-SEP-23
PCB 61/70/74/76			33.9	M,J	pg/g wwt		100	01-SEP-23
PCB 66			14.0	J,R	pg/g wwt		100	01-SEP-23
PCB 55			<4.4	[U]	pg/g wwt		100	01-SEP-23
PCB 56			39.0	J,R	pg/g wwt		100	01-SEP-23
PCB 60			5.7	J,R	pg/g wwt		100	01-SEP-23
PCB 80			<3.5	[U]	pg/g wwt		100	01-SEP-23
PCB 79			<3.7	[U]	pg/g wwt		100	01-SEP-23
PCB 78			<4.8	[U]	pg/g wwt		100	01-SEP-23
PCB 81			<3.5	[U]	pg/g wwt		100	01-SEP-23
PCB 77			<3.6	[U]	pg/g wwt		100	01-SEP-23
PCB 104			<2.5	[U]	pg/g wwt		100	01-SEP-23
PCB 96			<2.4	[U]	pg/g wwt		100	01-SEP-23
PCB 103			<3.7	[U]	pg/g wwt		100	01-SEP-23
PCB 94			<3.9	[U]	pg/g wwt		100	01-SEP-23
PCB 95			20.3	[J]	pg/g wwt		100	01-SEP-23
PCB 100/93/102/98			<3.5	[U]	pg/g wwt		100	01-SEP-23
PCB 88/91			<3.9	[U]	pg/g wwt		100	01-SEP-23
PCB 84			<4.0	[U]	pg/g wwt		100	01-SEP-23
PCB 89			<4.8	[U]	pg/g wwt		100	01-SEP-23
PCB 121			<2.6	[U]	pg/g wwt		100	01-SEP-23
PCB 92			<4.3	[U]	pg/g wwt		100	01-SEP-23

COMMENTS: Selected target is above report limit criteria

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PCB-1668C-O2-HRMS-BU	**Tissue**							
Batch	**R5967776**							
WG3786292-1	**MB**							
PCB 113/90/101			19.8	[J]	pg/g wwt		100	01-SEP-23
PCB 83/99			16.1	[J]	pg/g wwt		100	01-SEP-23
PCB 112			<2.5	[U]	pg/g wwt		100	01-SEP-23
PCB 109/119/86/97/125/87			14.3	M,J	pg/g wwt		100	01-SEP-23
PCB 117/116/85/110/115			33.0	M,J,R	pg/g wwt		100	01-SEP-23
PCB 82			<4.6	[U]	pg/g wwt		100	01-SEP-23
PCB 111			<2.6	[U]	pg/g wwt		100	01-SEP-23
PCB 120			<2.8	[U]	pg/g wwt		100	01-SEP-23
PCB 108/124			<2.7	[U]	pg/g wwt		100	01-SEP-23
PCB 107			<2.1	[U]	pg/g wwt		100	01-SEP-23
PCB 123			<2.5	[U]	pg/g wwt		100	01-SEP-23
PCB 106			<3.1	[U]	pg/g wwt		100	01-SEP-23
PCB 118			19.0	M,J,R	pg/g wwt		100	01-SEP-23
PCB 122			<3.6	[U]	pg/g wwt		100	01-SEP-23
PCB 114			<2.6	[U]	pg/g wwt		100	01-SEP-23
PCB 105			3.5	J,R	pg/g wwt		100	01-SEP-23
PCB 127			<2.7	[U]	pg/g wwt		100	01-SEP-23
PCB 126			<2.4	[U]	pg/g wwt		100	01-SEP-23
PCB 155			<1.9	[U]	pg/g wwt		100	01-SEP-23
PCB 152			<1.9	[U]	pg/g wwt		100	01-SEP-23
PCB 150			<1.8	[U]	pg/g wwt		100	01-SEP-23
PCB 136			<2.2	[U]	pg/g wwt		100	01-SEP-23
PCB 145			<2.0	[U]	pg/g wwt		100	01-SEP-23
PCB 148			<2.9	[U]	pg/g wwt		100	01-SEP-23
PCB 151/135			6.5	M,J,R	pg/g wwt		100	01-SEP-23
PCB 154			<2.1	[U]	pg/g wwt		100	01-SEP-23
PCB 144			<2.9	[U]	pg/g wwt		100	01-SEP-23
PCB 147/149			9.7	J,R	pg/g wwt		100	01-SEP-23
PCB 134/143			<3.0	[U]	pg/g wwt		100	01-SEP-23
PCB 139/140			<2.4	[U]	pg/g wwt		100	01-SEP-23
PCB 131			<3.0	[U]	pg/g wwt		100	01-SEP-23
PCB 142			<3.3	[U]	pg/g wwt		100	01-SEP-23
PCB 132			3.7	M,J,R	pg/g wwt		100	01-SEP-23

COMMENTS: Selected target is above report limit criteria

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PCB-1668C-O2-HRMS-BU	**Tissue**							
Batch R5967776								
WG3786292-1 MB								
PCB 133			<3.0	[U]	pg/g wwt		100	01-SEP-23
PCB 165			<2.1	[U]	pg/g wwt		100	01-SEP-23
PCB 146			<2.3	[U]	pg/g wwt		100	01-SEP-23
PCB 161			<2.1	[U]	pg/g wwt		100	01-SEP-23
PCB 168/153			14.0	J,R	pg/g wwt		100	01-SEP-23
PCB 141			3.2	M,J,R	pg/g wwt		100	01-SEP-23
PCB 130			<3.1	[U]	pg/g wwt		100	01-SEP-23
PCB 137/164			<2.2	[U]	pg/g wwt		100	01-SEP-23
PCB 138/163/129			16.3	M,J	pg/g wwt		100	01-SEP-23
PCB 160			<2.1	[U]	pg/g wwt		100	01-SEP-23
PCB 158			<1.8	[U]	pg/g wwt		100	01-SEP-23
PCB 128/166			3.1	J,R	pg/g wwt		100	01-SEP-23
PCB 159			<1.9	[U]	pg/g wwt		100	01-SEP-23
PCB 162			<2.0	[U]	pg/g wwt		100	01-SEP-23
PCB 167			<1.9	[U]	pg/g wwt		100	01-SEP-23
PCB 156/157			<2.4	[U]	pg/g wwt		200	01-SEP-23
PCB 169			<1.9	M,U	pg/g wwt		100	01-SEP-23
PCB 188			<2.1	[U]	pg/g wwt		100	01-SEP-23
PCB 179			<2.1	M,U	pg/g wwt		100	01-SEP-23
PCB 184			<2.0	[U]	pg/g wwt		100	01-SEP-23
PCB 176			<2.2	[U]	pg/g wwt		100	01-SEP-23
PCB 186			<2.1	[U]	pg/g wwt		100	01-SEP-23
PCB 178			<3.1	[U]	pg/g wwt		100	01-SEP-23
PCB 175			<2.9	[U]	pg/g wwt		100	01-SEP-23
PCB 187			<2.6	[U]	pg/g wwt		100	01-SEP-23
PCB 182			<2.7	[U]	pg/g wwt		100	01-SEP-23
PCB 183			<2.6	[U]	pg/g wwt		100	01-SEP-23
PCB 185			<2.8	[U]	pg/g wwt		100	01-SEP-23
PCB 174			<2.7	[U]	pg/g wwt		100	01-SEP-23
PCB 177			<3.0	[U]	pg/g wwt		100	01-SEP-23
PCB 181			<2.8	[U]	pg/g wwt		100	01-SEP-23
PCB 171/173			<3.0	[U]	pg/g wwt		100	01-SEP-23
PCB 172			<2.9	[U]	pg/g wwt		100	01-SEP-23

COMMENTS: Selected target is above report limit criteria

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PCB-1668C-O2-HRMS-BU	**Tissue**							
Batch R5967776								
WG3786292-1 MB								
PCB 192			<2.4	[U]	pg/g wwt		100	01-SEP-23
PCB 180/193			4.9	J,R	pg/g wwt		100	01-SEP-23
PCB 191			<2.2	[U]	pg/g wwt		100	01-SEP-23
PCB 170			<3.1	M,U	pg/g wwt		100	01-SEP-23
PCB 190			<2.0	[U]	pg/g wwt		100	01-SEP-23
PCB 189			<1.5	[U]	pg/g wwt		100	01-SEP-23
PCB 202			<1.7	[U]	pg/g wwt		100	01-SEP-23
PCB 201			<1.6	[U]	pg/g wwt		100	01-SEP-23
PCB 204			<1.6	[U]	pg/g wwt		100	01-SEP-23
PCB 197			<1.6	[U]	pg/g wwt		100	01-SEP-23
PCB 200			<1.8	[U]	pg/g wwt		100	01-SEP-23
PCB 198/199			<2.4	[U]	pg/g wwt		100	01-SEP-23
PCB 196			<2.3	[U]	pg/g wwt		100	01-SEP-23
PCB 203			<2.3	[U]	pg/g wwt		100	01-SEP-23
PCB 195			<2.6	[U]	pg/g wwt		100	01-SEP-23
PCB 194			4.6	M,J,R	pg/g wwt		100	01-SEP-23
PCB 205			<1.9	[U]	pg/g wwt		100	01-SEP-23
PCB 208			<5.2	[U]	pg/g wwt		100	01-SEP-23
PCB 207			<5.7	[U]	pg/g wwt		100	01-SEP-23
PCB 206			<8.8	[U]	pg/g wwt		100	01-SEP-23
PCB 209			2.5	M,J,R	pg/g wwt		100	01-SEP-23
Surrogate: 13C12 PCB 1			11.0		%		5-145	01-SEP-23
Surrogate: 13C12 PCB 3			14.0		%		5-145	01-SEP-23
Surrogate: 13C12 PCB 4			12.0		%		5-145	01-SEP-23
Surrogate: 13C12 PCB 15			18.0		%		5-145	01-SEP-23
Surrogate: 13C12 PCB 19			12.0		%		5-145	01-SEP-23
Surrogate: 13C12 PCB 37			27.0		%		5-145	01-SEP-23
Surrogate: 13C12 PCB 54			13.0		%		5-145	01-SEP-23
Surrogate: 13C12 PCB 81			35.0		%		10-145	01-SEP-23
Surrogate: 13C12 PCB 77			36.0		%		10-145	01-SEP-23
Surrogate: 13C12 PCB 104			21.0		%		10-145	01-SEP-23
Surrogate: 13C12 PCB 123			36.0		%		10-145	01-SEP-23
Surrogate: 13C12 PCB 118			35.0		%		10-145	01-SEP-23
Surrogate: 13C12 PCB 114			34.0		%		10-145	01-SEP-23

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PCB-1668C-O2-HRMS-BU	**Tissue**							
Batch	**R5967776**							
WG3786292-1	**MB**							
Surrogate: 13C12 PCB 105			38.0		%		10-145	01-SEP-23
Surrogate: 13C12 PCB 126			38.0		%		10-145	01-SEP-23
Surrogate: 13C12 PCB 155			26.0		%		10-145	01-SEP-23
Surrogate: 13C12 PCB 167			38.0		%		10-145	01-SEP-23
Surrogate: 13C12 PCB 156/157			37.0		%		10-145	01-SEP-23
Surrogate: 13C12 PCB 169			38.0		%		10-145	01-SEP-23
Surrogate: 13C12 PCB 188			31.0		%		10-145	01-SEP-23
Surrogate: 13C12 PCB 189			40.0		%		10-145	01-SEP-23
Surrogate: 13C12 PCB 202			31.0		%		10-145	01-SEP-23
Surrogate: 13C12 PCB 205			37.0		%		10-145	01-SEP-23
Surrogate: 13C12 PCB 208			34.0		%		10-145	01-SEP-23
Surrogate: 13C12 PCB 206			35.0		%		10-145	01-SEP-23
Surrogate: 13C12 PCB 209			36.0		%		10-145	01-SEP-23
Surrogate: 13C12 PCB 28			33.0		%		5-145	01-SEP-23
Surrogate: 13C12 PCB 111			45.0		%		10-145	01-SEP-23
Surrogate: 13C12 PCB 178			44.0		%		10-145	01-SEP-23
Total MonoCB			16.3	[J]	pg/g wwt		200	01-SEP-23
Total DiCB			222	[J]	pg/g wwt		400	01-SEP-23
Total TriCB			227	[J]	pg/g wwt		400	01-SEP-23
Total TetraCB			260	[J]	pg/g wwt		800	01-SEP-23
Total PentaCB			126	[J]	pg/g wwt		800	01-SEP-23
Total HexaCB			56.5	[J]	pg/g wwt		800	01-SEP-23
Total HeptaCB			4.9	[J]	pg/g wwt		400	01-SEP-23
Total OctaCB			4.6	[J]	pg/g wwt		400	01-SEP-23
Total NonaCB			<5.2	[U]	pg/g wwt		200	01-SEP-23
DecaCB			2.5	[J]	pg/g wwt		200	01-SEP-23
Total PCB			921	[J]	pg/g wwt		1600	01-SEP-23
COMMENTS: Selected target is above report limit criteria								
Batch	**R5972336**							
WG3787327-4	**DUP**	**L2751405-1**						
PCB 1		0.35	0.47		pg/g wwt	29	50	17-NOV-23
PCB 2		<0.26	0.46	G	pg/g wwt	N/A	50	17-NOV-23
PCB 3		0.33	0.50		pg/g wwt	41	50	17-NOV-23
PCB 4		<0.65	<0.65	RPD-NA	pg/g wwt	N/A	50	17-NOV-23

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PCB-1668C-O2-HRMS-BU	**Tissue**							
Batch R5972336								
WG3787327-4 DUP		**L2751405-1**						
PCB 10		<0.31	<0.32	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 9		<0.30	<0.31	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 7		<0.31	<0.31	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 6		<0.32	<0.33	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 5		<0.34	<0.35	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 8		0.97	1.20		pg/g wwt	21	50	17-NOV-23
PCB 14		<0.92	<0.74	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 11		9.72	14.1		pg/g wwt	37	50	17-NOV-23
PCB 13/12		<0.85	<0.68	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 15		<0.82	<0.65	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 19		<0.18	<0.14	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 30/18		0.62	0.92		pg/g wwt	39	50	17-NOV-23
PCB 17		0.46	0.52		pg/g wwt	12	50	17-NOV-23
PCB 27		<0.22	<0.19	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 24		<0.23	<0.21	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 16		0.45	0.48		pg/g wwt	6.6	50	17-NOV-23
PCB 32		0.44	0.29		pg/g wwt	40	50	17-NOV-23
PCB 34		<3.2	<2.3	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 23		<3.1	<2.3	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 29/26		<2.9	<2.2	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 25		<2.8	<2.0	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 31		<2.9	<2.1	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 28/20		3.5	<2.2	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 21/33		<2.9	<2.1	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 22		<3.2	<2.3	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 36		<2.6	<1.9	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 39		<3.1	<2.3	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 38		<3.0	<2.2	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 35		<3.2	<2.3	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 37		<4.2	<3.2	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 54		<1.2	<0.98	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 50/53		<2.9	<2.4	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 45/51		<3.0	<2.5	RPD-NA	pg/g wwt	N/A	50	17-NOV-23

COMMENTS: Selected targets fail method replicate criteria.

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PCB-1668C-O2-HRMS-BU	**Tissue**							
Batch R5972336								
WG3787327-4 DUP		**L2751405-1**						
PCB 46		<3.3	<2.7	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 52		<3.0	2.7	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 73		<2.0	<1.7	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 43		<3.6	<3.0	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 69/49		<2.3	<1.9	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 48		<2.8	<2.3	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 44/47/65		<2.6	2.9	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 59/62/75		<2.1	<1.7	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 42		<3.0	<2.5	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 41/71/40		<2.8	<2.3	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 64		<2.1	<1.7	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 72		<2.7	<2.2	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 68		<2.6	<2.1	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 57		<2.8	<2.3	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 58		<2.8	<2.2	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 67		<2.4	<1.9	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 63		<2.7	<2.2	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 61/70/74/76		5.7	4.2		pg/g wwt	31	50	17-NOV-23
PCB 66		<2.6	<2.1	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 55		<2.8	<2.3	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 56		<2.8	<2.3	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 60		<2.8	<2.2	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 80		<2.2	<1.8	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 79		<2.4	<1.9	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 78		<3.0	<2.4	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 81		<3.2	<2.7	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 77		<3.6	<2.9	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 104		<0.92	<0.94	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 96		<1.5	<1.5	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 103		<2.1	<1.9	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 94		<2.2	<2.0	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 95		<2.3	3.0	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 100/93/102/98		<2.0	<1.8	RPD-NA	pg/g wwt	N/A	50	17-NOV-23

COMMENTS: Selected targets fail method replicate criteria.

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PCB-1668C-O2-HRMS-BU	**Tissue**							
Batch R5972336								
WG3787327-4 DUP		**L2751405-1**						
PCB 88/91		<2.2	<2.0	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 84		<2.2	<2.0	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 89		<2.6	<2.3	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 121		<1.5	<1.4	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 92		<2.4	<2.2	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 113/90/101		3.0	4.3		pg/g wwt	35	50	17-NOV-23
PCB 83/99		<2.1	<1.9	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 112		<1.5	<1.3	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 109/119/86/97/125/87		<1.7	<1.6	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 117/116/85/110/115		4.9	6.6		pg/g wwt	30	50	17-NOV-23
PCB 82		<2.4	<2.2	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 111		<1.5	<1.3	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 120		<1.4	<1.3	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 108/124		<1.8	<1.5	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 107		<1.5	<1.3	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 123		<2.0	<1.6	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 106		<1.9	<1.6	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 118		3.9	6.8	J	pg/g wwt	2.9	3.6	17-NOV-23
PCB 122		<2.3	<2.0	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 114		<2.0	<1.7	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 105		<1.9	<1.8	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 127		<1.7	<1.4	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 126		<2.2	<2.1	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 155		<0.47	<0.43	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 152		<0.70	<0.71	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 150		<0.60	<0.60	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 136		<0.66	<0.68	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 145		<0.64	<0.65	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 148		<0.87	<0.89	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 151/135		2.40	1.89		pg/g wwt	24	50	17-NOV-23
PCB 154		<0.66	<0.67	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 144		<0.87	<0.89	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 147/149		3.9	3.7		pg/g wwt	4.7	50	17-NOV-23

COMMENTS: Selected targets fail method replicate criteria.

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PCB-1668C-O2-HRMS-BU	**Tissue**							
Batch R5972336								
WG3787327-4 DUP		**L2751405-1**						
PCB 134/143		<1.5	<1.4	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 139/140		<1.2	<1.2	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 131		<1.5	<1.4	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 142		<1.6	<1.5	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 132		1.9	<1.3	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 133		<1.4	<1.3	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 165		<1.1	<0.98	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 146		<1.1	<1.1	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 161		<1.0	<0.92	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 168/153		4.4	5.52		pg/g wwt	23	50	17-NOV-23
PCB 141		<1.3	<1.2	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 130		<1.5	<1.3	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 137/164		<1.1	<1.0	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 138/163/129		5.6	6.6		pg/g wwt	16	50	17-NOV-23
PCB 160		<0.93	<0.86	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 158		<0.85	<0.79	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 128/166		<1.1	<1.0	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 159		<0.91	<0.85	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 162		<0.97	<0.90	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 167		<1.1	<0.93	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 156/157		<1.4	<1.4	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 169		<1.1	<1.1	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 188		<0.74	<0.79	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 179		<0.73	<0.79	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 184		<0.70	<0.75	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 176		<0.73	<0.79	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 186		<0.76	<0.82	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 178		<1.0	<1.1	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 175		<0.97	<1.0	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 187		3.12	1.10	J,G	pg/g wwt	2.02	1.96	17-NOV-23
PCB 182		<0.92	<0.99	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 183		1.50	<0.96	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 185		<1.0	<1.1	RPD-NA	pg/g wwt	N/A	50	17-NOV-23

COMMENTS: Selected targets fail method replicate criteria.

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PCB-1668C-O2-HRMS-BU	**Tissue**							
Batch R5972336								
WG3787327-4 DUP		**L2751405-1**						
PCB 174		1.90	<1.0	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 177		<0.99	<1.1	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 181		<1.0	<1.1	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 171/173		<1.0	<1.1	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 172		<0.96	<1.0	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 192		<0.82	<0.88	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 180/193		3.60	4.17		pg/g wwt	15	50	17-NOV-23
PCB 191		<0.73	<0.79	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 170		1.76	<1.1	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 190		<0.64	<0.69	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 189		<1.1	<1.1	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 202		<0.57	<0.48	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 201		<0.57	<0.50	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 204		<0.59	<0.52	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 197		<0.60	<0.53	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 200		<0.62	<0.55	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 198/199		<0.80	<0.71	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 196		<0.78	<0.69	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 203		<0.77	<0.68	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 195		<0.92	<1.0	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 194		0.92	<1.0	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 205		<0.82	<0.98	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 208		<3.1	<3.2	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 207		<3.1	<3.3	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 206		<5.3	<6.0	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
PCB 209		<0.91	<0.83	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
Total MonoCB		0.68	1.43	G	pg/g wwt	71	50	17-NOV-23
Total DiCB		10.7	15.3		pg/g wwt	35	50	17-NOV-23
Total TriCB		5.45	2.21	G	pg/g wwt	85	50	17-NOV-23
Total TetraCB		5.7	9.70	G	pg/g wwt	52	50	17-NOV-23
Total PentaCB		11.8	20.7	G	pg/g wwt	55	50	17-NOV-23
Total HexaCB		18.2	17.7		pg/g wwt	2.8	50	17-NOV-23
Total HeptaCB		11.9	5.27	G	pg/g wwt	77	50	17-NOV-23

COMMENTS: Selected targets fail method replicate criteria.

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PCB-1668C-O2-HRMS-BU	**Tissue**							
Batch R5972336								
WG3787327-4 DUP		**L2751405-1**						
Total OctaCB		0.92	<0.48	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
Total NonaCB		<3.1	<3.2	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
DecaCB		<0.91	<0.83	RPD-NA	pg/g wwt	N/A	50	17-NOV-23
Total PCB		65.3	72.3		pg/g wwt	10	50	17-NOV-23
COMMENTS: Selected targets fail method replicate criteria.								
WG3787327-2 LCS								
PCB 1			92.0		%		60-135	16-NOV-23
PCB 3			82.0		%		60-135	16-NOV-23
PCB 4			115.0		%		60-135	16-NOV-23
PCB 15			103.0		%		60-135	16-NOV-23
PCB 19			96.0		%		60-135	16-NOV-23
PCB 37			98.0		%		60-135	16-NOV-23
PCB 54			95.0		%		60-135	16-NOV-23
PCB 81			96.0		%		60-135	16-NOV-23
PCB 77			96.0		%		60-135	16-NOV-23
PCB 104			101.0		%		60-135	16-NOV-23
PCB 123			102.0		%		60-135	16-NOV-23
PCB 118			103.0		%		60-135	16-NOV-23
PCB 114			110.0		%		60-135	16-NOV-23
PCB 105			100.0		%		60-135	16-NOV-23
PCB 126			100.0		%		60-135	16-NOV-23
PCB 155			103.0		%		60-135	16-NOV-23
PCB 167			100.0		%		60-135	16-NOV-23
PCB 156/157			103.0		%		60-135	16-NOV-23
PCB 169			103.0		%		60-135	16-NOV-23
PCB 188			99.0		%		60-135	16-NOV-23
PCB 189			96.0		%		60-135	16-NOV-23
PCB 202			101.0		%		60-135	16-NOV-23
PCB 205			89.0		%		60-135	16-NOV-23
PCB 208			101.0		%		60-135	16-NOV-23
PCB 206			102.0		%		60-135	16-NOV-23
PCB 209			117.0		%		60-135	16-NOV-23
WG3787327-1 MB								
PCB 1			<0.29	[U]	pg/g wwt		10	16-NOV-23
PCB 2			<0.36	[U]	pg/g wwt		10	16-NOV-23

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PCB-1668C-O2-HRMS-BU	**Tissue**							
Batch R5972336								
WG3787327-1 MB								
PCB 3			<0.32	[U]	pg/g wwt		10	16-NOV-23
PCB 4			<1.1	[U]	pg/g wwt		10	16-NOV-23
PCB 10			<0.68	[U]	pg/g wwt		10	16-NOV-23
PCB 9			<0.67	[U]	pg/g wwt		10	16-NOV-23
PCB 7			<0.66	[U]	pg/g wwt		10	16-NOV-23
PCB 6			<0.68	[U]	pg/g wwt		10	16-NOV-23
PCB 5			<0.75	[U]	pg/g wwt		10	16-NOV-23
PCB 8			<0.62	[U]	pg/g wwt		10	16-NOV-23
PCB 14			<1.6	[U]	pg/g wwt		10	16-NOV-23
PCB 11			5.3	M	pg/g wwt		10	16-NOV-23
PCB 13/12			<1.5	[U]	pg/g wwt		10	16-NOV-23
PCB 15			<1.7	[U]	pg/g wwt		10	16-NOV-23
PCB 19			<0.31	[U]	pg/g wwt		10	16-NOV-23
PCB 30/18			<0.44	[U]	pg/g wwt		10	16-NOV-23
PCB 17			<0.51	[U]	pg/g wwt		10	16-NOV-23
PCB 27			<0.38	[U]	pg/g wwt		10	16-NOV-23
PCB 24			<0.43	[U]	pg/g wwt		10	16-NOV-23
PCB 16			<0.56	[U]	pg/g wwt		10	16-NOV-23
PCB 32			<0.36	[U]	pg/g wwt		10	16-NOV-23
PCB 34			<0.39	[U]	pg/g wwt		10	16-NOV-23
PCB 23			<0.39	[U]	pg/g wwt		10	16-NOV-23
PCB 29/26			<0.37	[U]	pg/g wwt		10	16-NOV-23
PCB 25			<0.34	[U]	pg/g wwt		10	16-NOV-23
PCB 31			<0.36	[U]	pg/g wwt		10	16-NOV-23
PCB 28/20			0.53	M,J,R	pg/g wwt		10	16-NOV-23
PCB 21/33			<0.36	[U]	pg/g wwt		10	16-NOV-23
PCB 22			<0.40	[U]	pg/g wwt		10	16-NOV-23
PCB 36			<0.33	[U]	pg/g wwt		10	16-NOV-23
PCB 39			<0.39	[U]	pg/g wwt		10	16-NOV-23
PCB 38			<0.38	[U]	pg/g wwt		10	16-NOV-23
PCB 35			<0.41	[U]	pg/g wwt		10	16-NOV-23
PCB 37			<0.49	[U]	pg/g wwt		10	16-NOV-23
PCB 54			<0.19	[U]	pg/g wwt		10	16-NOV-23

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PCB-1668C-O2-HRMS-BU	**Tissue**							
Batch R5972336								
WG3787327-1 MB								
PCB 50/53			<0.39	[U]	pg/g wwt		10	16-NOV-23
PCB 45/51			<0.39	[U]	pg/g wwt		10	16-NOV-23
PCB 46			<0.43	[U]	pg/g wwt		10	16-NOV-23
PCB 52			<0.38	[U]	pg/g wwt		10	16-NOV-23
PCB 73			<0.28	[U]	pg/g wwt		10	16-NOV-23
PCB 43			<0.45	[U]	pg/g wwt		10	16-NOV-23
PCB 69/49			<0.31	[U]	pg/g wwt		10	16-NOV-23
PCB 48			<0.37	[U]	pg/g wwt		10	16-NOV-23
PCB 44/47/65			1.10	M,J,R	pg/g wwt		10	16-NOV-23
PCB 59/62/75			<0.28	[U]	pg/g wwt		10	16-NOV-23
PCB 42			<0.41	[U]	pg/g wwt		10	16-NOV-23
PCB 41/71/40			<0.37	[U]	pg/g wwt		10	16-NOV-23
PCB 64			0.33	M,J	pg/g wwt		10	16-NOV-23
PCB 72			<0.33	[U]	pg/g wwt		10	16-NOV-23
PCB 68			<0.32	[U]	pg/g wwt		10	16-NOV-23
PCB 57			<0.33	[U]	pg/g wwt		10	16-NOV-23
PCB 58			<0.32	[U]	pg/g wwt		10	16-NOV-23
PCB 67			<0.29	[U]	pg/g wwt		10	16-NOV-23
PCB 63			<0.32	[U]	pg/g wwt		10	16-NOV-23
PCB 61/70/74/76			<0.33	[U]	pg/g wwt		10	16-NOV-23
PCB 66			<0.32	[U]	pg/g wwt		10	16-NOV-23
PCB 55			<0.34	[U]	pg/g wwt		10	16-NOV-23
PCB 56			<0.34	[U]	pg/g wwt		10	16-NOV-23
PCB 60			<0.34	[U]	pg/g wwt		10	16-NOV-23
PCB 80			<0.27	[U]	pg/g wwt		10	16-NOV-23
PCB 79			<0.29	[U]	pg/g wwt		10	16-NOV-23
PCB 78			<0.36	[U]	pg/g wwt		10	16-NOV-23
PCB 81			<0.34	[U]	pg/g wwt		10	16-NOV-23
PCB 77			<0.35	[U]	pg/g wwt		10	16-NOV-23
PCB 104			<0.21	[U]	pg/g wwt		10	16-NOV-23
PCB 96			<0.24	[U]	pg/g wwt		10	16-NOV-23
PCB 103			<0.28	[U]	pg/g wwt		10	16-NOV-23
PCB 94			<0.29	[U]	pg/g wwt		10	16-NOV-23

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PCB-1668C-O2-HRMS-BU	**Tissue**							
Batch R5972336								
WG3787327-1 MB								
PCB 95			0.47	M,J	pg/g wwt		10	16-NOV-23
PCB 100/93/102/98			<0.27	[U]	pg/g wwt		10	16-NOV-23
PCB 88/91			<0.29	[U]	pg/g wwt		10	16-NOV-23
PCB 84			<0.30	[U]	pg/g wwt		10	16-NOV-23
PCB 89			<0.34	[U]	pg/g wwt		10	16-NOV-23
PCB 121			<0.20	[U]	pg/g wwt		10	16-NOV-23
PCB 92			<0.32	[U]	pg/g wwt		10	16-NOV-23
PCB 113/90/101			<0.24	[U]	pg/g wwt		10	16-NOV-23
PCB 83/99			<0.29	[U]	pg/g wwt		10	16-NOV-23
PCB 112			<0.19	[U]	pg/g wwt		10	16-NOV-23
PCB 109/119/86/97/125/87			0.27	M,J,R	pg/g wwt		10	16-NOV-23
PCB 117/116/85/110/115			0.54	M,J,R	pg/g wwt		10	16-NOV-23
PCB 82			<0.33	[U]	pg/g wwt		10	16-NOV-23
PCB 111			<0.20	[U]	pg/g wwt		10	16-NOV-23
PCB 120			<0.19	[U]	pg/g wwt		10	16-NOV-23
PCB 108/124			<0.23	[U]	pg/g wwt		10	16-NOV-23
PCB 107			<0.19	[U]	pg/g wwt		10	16-NOV-23
PCB 123			<0.25	[U]	pg/g wwt		10	16-NOV-23
PCB 106			<0.26	[U]	pg/g wwt		10	16-NOV-23
PCB 118			<0.23	[U]	pg/g wwt		10	16-NOV-23
PCB 122			<0.31	[U]	pg/g wwt		10	16-NOV-23
PCB 114			<0.25	[U]	pg/g wwt		10	16-NOV-23
PCB 105			<0.24	[U]	pg/g wwt		10	16-NOV-23
PCB 127			<0.23	[U]	pg/g wwt		10	16-NOV-23
PCB 126			<0.24	[U]	pg/g wwt		10	16-NOV-23
PCB 155			<0.086	[U]	pg/g wwt		10	16-NOV-23
PCB 152			<0.10	[U]	pg/g wwt		10	16-NOV-23
PCB 150			<0.096	[U]	pg/g wwt		10	16-NOV-23
PCB 136			<0.10	[U]	pg/g wwt		10	16-NOV-23
PCB 145			<0.099	[U]	pg/g wwt		10	16-NOV-23
PCB 148			<0.13	[U]	pg/g wwt		10	16-NOV-23
PCB 151/135			<0.13	[U]	pg/g wwt		10	16-NOV-23
PCB 154			<0.11	[U]	pg/g wwt		10	16-NOV-23

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PCB-1668C-O2-HRMS-BU	**Tissue**							
Batch R5972336								
WG3787327-1 MB								
PCB 144			<0.13	[U]	pg/g wwt		10	16-NOV-23
PCB 147/149			0.18	J,R	pg/g wwt		10	16-NOV-23
PCB 134/143			<0.20	[U]	pg/g wwt		10	16-NOV-23
PCB 139/140			<0.16	[U]	pg/g wwt		10	16-NOV-23
PCB 131			<0.19	[U]	pg/g wwt		10	16-NOV-23
PCB 142			<0.19	[U]	pg/g wwt		10	16-NOV-23
PCB 132			<0.18	[U]	pg/g wwt		10	16-NOV-23
PCB 133			<0.18	[U]	pg/g wwt		10	16-NOV-23
PCB 165			<0.13	[U]	pg/g wwt		10	16-NOV-23
PCB 146			<0.14	[U]	pg/g wwt		10	16-NOV-23
PCB 161			<0.13	[U]	pg/g wwt		10	16-NOV-23
PCB 168/153			0.14	[J]	pg/g wwt		10	16-NOV-23
PCB 141			<0.16	[U]	pg/g wwt		10	16-NOV-23
PCB 130			<0.18	[U]	pg/g wwt		10	16-NOV-23
PCB 137/164			<0.14	[U]	pg/g wwt		10	16-NOV-23
PCB 138/163/129			0.20	M,J,R	pg/g wwt		10	16-NOV-23
PCB 160			<0.12	[U]	pg/g wwt		10	16-NOV-23
PCB 158			<0.11	[U]	pg/g wwt		10	16-NOV-23
PCB 128/166			<0.14	[U]	pg/g wwt		10	16-NOV-23
PCB 159			<0.11	[U]	pg/g wwt		10	16-NOV-23
PCB 162			<0.12	[U]	pg/g wwt		10	16-NOV-23
PCB 167			<0.12	[U]	pg/g wwt		10	16-NOV-23
PCB 156/157			<0.17	[U]	pg/g wwt		20	16-NOV-23
PCB 169			<0.13	[U]	pg/g wwt		10	16-NOV-23
PCB 188			<0.11	[U]	pg/g wwt		10	16-NOV-23
PCB 179			<0.097	[U]	pg/g wwt		10	16-NOV-23
PCB 184			<0.096	[U]	pg/g wwt		10	16-NOV-23
PCB 176			<0.099	[U]	pg/g wwt		10	16-NOV-23
PCB 186			<0.10	[U]	pg/g wwt		10	16-NOV-23
PCB 178			<0.14	[U]	pg/g wwt		10	16-NOV-23
PCB 175			<0.13	[U]	pg/g wwt		10	16-NOV-23
PCB 187			<0.12	[U]	pg/g wwt		10	16-NOV-23
PCB 182			<0.12	[U]	pg/g wwt		10	16-NOV-23

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PCB-1668C-O2-HRMS-BU	**Tissue**							
Batch R5972336								
WG3787327-1 MB								
PCB 183			<0.12	[U]	pg/g wwt		10	16-NOV-23
PCB 185			<0.14	[U]	pg/g wwt		10	16-NOV-23
PCB 174			<0.12	[U]	pg/g wwt		10	16-NOV-23
PCB 177			<0.13	[U]	pg/g wwt		10	16-NOV-23
PCB 181			<0.14	[U]	pg/g wwt		10	16-NOV-23
PCB 171/173			<0.14	[U]	pg/g wwt		10	16-NOV-23
PCB 172			<0.13	[U]	pg/g wwt		10	16-NOV-23
PCB 192			<0.11	[U]	pg/g wwt		10	16-NOV-23
PCB 180/193			<0.11	[U]	pg/g wwt		10	16-NOV-23
PCB 191			<0.10	[U]	pg/g wwt		10	16-NOV-23
PCB 170			<0.14	[U]	pg/g wwt		10	16-NOV-23
PCB 190			<0.091	[U]	pg/g wwt		10	16-NOV-23
PCB 189			<0.16	[U]	pg/g wwt		10	16-NOV-23
PCB 202			<0.061	[U]	pg/g wwt		10	16-NOV-23
PCB 201			<0.060	[U]	pg/g wwt		10	16-NOV-23
PCB 204			<0.063	[U]	pg/g wwt		10	16-NOV-23
PCB 197			<0.066	[U]	pg/g wwt		10	16-NOV-23
PCB 200			<0.065	[U]	pg/g wwt		10	16-NOV-23
PCB 198/199			<0.088	[U]	pg/g wwt		10	16-NOV-23
PCB 196			<0.086	[U]	pg/g wwt		10	16-NOV-23
PCB 203			<0.086	[U]	pg/g wwt		10	16-NOV-23
PCB 195			<0.12	[U]	pg/g wwt		10	16-NOV-23
PCB 194			<0.12	[U]	pg/g wwt		10	16-NOV-23
PCB 205			<0.10	[U]	pg/g wwt		10	16-NOV-23
PCB 208			<0.37	[U]	pg/g wwt		10	16-NOV-23
PCB 207			<0.39	[U]	pg/g wwt		10	16-NOV-23
PCB 206			<0.68	[U]	pg/g wwt		10	16-NOV-23
PCB 209			<0.12	[U]	pg/g wwt		10	16-NOV-23
Surrogate: 13C12 PCB 1			26.0		%		5-145	16-NOV-23
Surrogate: 13C12 PCB 3			26.0		%		5-145	16-NOV-23
Surrogate: 13C12 PCB 4			25.0		%		5-145	16-NOV-23
Surrogate: 13C12 PCB 15			24.0		%		5-145	16-NOV-23
Surrogate: 13C12 PCB 19			31.0		%		5-145	16-NOV-23

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PCB-1668C-O2-HRMS-BU	**Tissue**							
Batch	**R5972336**							
WG3787327-1	**MB**							
Surrogate: 13C12 PCB 37			20.0		%		5-145	16-NOV-23
Surrogate: 13C12 PCB 54			20.0		%		5-145	16-NOV-23
Surrogate: 13C12 PCB 81			30.0		%		10-145	16-NOV-23
Surrogate: 13C12 PCB 77			30.0		%		10-145	16-NOV-23
Surrogate: 13C12 PCB 104			25.0		%		10-145	16-NOV-23
Surrogate: 13C12 PCB 123			33.0		%		10-145	16-NOV-23
Surrogate: 13C12 PCB 118			33.0		%		10-145	16-NOV-23
Surrogate: 13C12 PCB 114			32.0		%		10-145	16-NOV-23
Surrogate: 13C12 PCB 105			34.0		%		10-145	16-NOV-23
Surrogate: 13C12 PCB 126			36.0		%		10-145	16-NOV-23
Surrogate: 13C12 PCB 155			29.0		%		10-145	16-NOV-23
Surrogate: 13C12 PCB 167			45.0		%		10-145	16-NOV-23
Surrogate: 13C12 PCB 156/157			46.0		%		10-145	16-NOV-23
Surrogate: 13C12 PCB 169			50.0		%		10-145	16-NOV-23
Surrogate: 13C12 PCB 188			36.0		%		10-145	16-NOV-23
Surrogate: 13C12 PCB 189			45.0		%		10-145	16-NOV-23
Surrogate: 13C12 PCB 202			46.0		%		10-145	16-NOV-23
Surrogate: 13C12 PCB 205			51.0		%		10-145	16-NOV-23
Surrogate: 13C12 PCB 208			46.0		%		10-145	16-NOV-23
Surrogate: 13C12 PCB 206			49.0		%		10-145	16-NOV-23
Surrogate: 13C12 PCB 209			44.0		%		10-145	16-NOV-23
Surrogate: 13C12 PCB 28			22.0		%		5-145	16-NOV-23
Surrogate: 13C12 PCB 111			36.0		%		10-145	16-NOV-23
Surrogate: 13C12 PCB 178			40.0		%		10-145	16-NOV-23
Total MonoCB			<0.29	[U]	pg/g wwt		20	16-NOV-23
Total DiCB			5.34	[J]	pg/g wwt		40	16-NOV-23
Total TriCB			0.53	[J]	pg/g wwt		40	16-NOV-23
Total TetraCB			1.43	[J]	pg/g wwt		80	16-NOV-23
Total PentaCB			1.28	[J]	pg/g wwt		80	16-NOV-23
Total HexaCB			0.520	[J]	pg/g wwt		80	16-NOV-23
Total HeptaCB			<0.091	[U]	pg/g wwt		40	16-NOV-23
Total OctaCB			<0.060	[U]	pg/g wwt		40	16-NOV-23
Total NonaCB			<0.37	[U]	pg/g wwt		20	16-NOV-23
DecaCB			<0.12	[U]	pg/g wwt		20	16-NOV-23

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PCB-1668C-O2-HRMS-BU	**Tissue**							
Batch R5972336								
WG3787327-1 MB								
Total PCB			9.1	[J]	pg/g wwt		160	16-NOV-23
WG3787327-5 MS		**L2751405-1**						
PCB 1			93.0		%		50-150	17-NOV-23
PCB 3			79.0		%		50-150	17-NOV-23
PCB 4			123.0		%		50-150	17-NOV-23
PCB 15			106.0		%		50-150	17-NOV-23
PCB 19			104.0		%		50-150	17-NOV-23
PCB 37			109.0		%		50-150	17-NOV-23
PCB 54			106.0		%		50-150	17-NOV-23
PCB 81			99.0		%		50-150	17-NOV-23
PCB 77			98.0		%		50-150	17-NOV-23
PCB 104			104.0		%		50-150	17-NOV-23
PCB 123			106.0		%		50-150	17-NOV-23
PCB 118			110.0		%		50-150	17-NOV-23
PCB 114			117.0		%		50-150	17-NOV-23
PCB 105			107.0		%		50-150	17-NOV-23
PCB 126			110.0		%		50-150	17-NOV-23
PCB 155			106.0		%		50-150	17-NOV-23
PCB 167			106.0		%		50-150	17-NOV-23
PCB 156/157			106.0		%		50-150	17-NOV-23
PCB 169			109.0		%		50-150	17-NOV-23
PCB 188			104.0		%		50-150	17-NOV-23
PCB 189			100.0		%		50-150	17-NOV-23
PCB 202			99.0		%		50-150	17-NOV-23
PCB 205			94.0		%		50-150	17-NOV-23
PCB 208			101.0		%		50-150	17-NOV-23
PCB 206			103.0		%		50-150	17-NOV-23
PCB 209			118.0		%		50-150	17-NOV-23
WG3787327-6 MSD		**L2751405-1**						
PCB 1		N/A	98		%	5.2	50	17-NOV-23
PCB 3		N/A	82		%	3.7	50	17-NOV-23
PCB 4		N/A	124		%	0.8	50	17-NOV-23
PCB 15		N/A	103		%	2.9	50	17-NOV-23
PCB 19		N/A	100		%	3.9	50	17-NOV-23
PCB 37		N/A	107		%	1.9	50	17-NOV-23

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PCB-1668C-O2-HRMS-BU	**Tissue**							
Batch R5972336								
WG3787327-6 MSD		**L2751405-1**						
PCB 54		N/A	105		%	0.9	50	17-NOV-23
PCB 81		N/A	96		%	3.1	50	17-NOV-23
PCB 77		N/A	98		%	0.0	50	17-NOV-23
PCB 104		N/A	103		%	1.0	50	17-NOV-23
PCB 123		N/A	105		%	0.9	50	17-NOV-23
PCB 118		N/A	110		%	0.0	50	17-NOV-23
PCB 114		N/A	111		%	5.3	50	17-NOV-23
PCB 105		N/A	102		%	4.8	50	17-NOV-23
PCB 126		N/A	105		%	4.7	50	17-NOV-23
PCB 155		N/A	105		%	0.9	50	17-NOV-23
PCB 167		N/A	105		%	0.9	50	17-NOV-23
PCB 156/157		N/A	105		%	0.9	50	17-NOV-23
PCB 169		N/A	103		%	5.7	50	17-NOV-23
PCB 188		N/A	102		%	1.9	50	17-NOV-23
PCB 189		N/A	104		%	3.9	50	17-NOV-23
PCB 202		N/A	99		%	0.0	50	17-NOV-23
PCB 205		N/A	90		%	4.3	50	17-NOV-23
PCB 208		N/A	102		%	1.0	50	17-NOV-23
PCB 206		N/A	103		%	0.0	50	17-NOV-23
PCB 209		N/A	122		%	3.3	50	17-NOV-23
COMMENTS: PCB-209 surrogate marginally fails method limit criteria.								
S-DRY-CCMS-N-VA	**Tissue**							
Batch R5964066								
WG3786210-2 DUP		**L2751405-2**						
Sulfur (S)-Total		1150	1090		mg/kg	5.3	40	19-JUL-23
WG3786210-3 LCS								
Sulfur (S)-Total			110.4		%		70-130	19-JUL-23
WG3786211-3 LCS								
Sulfur (S)-Total			106.5		%		70-130	19-JUL-23
WG3786210-1 MB								
Sulfur (S)-Total			<100		mg/kg		100	19-JUL-23
WG3786211-1 MB								
Sulfur (S)-Total			<100		mg/kg		100	19-JUL-23

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
S-DRY-CCMS-N-VA	**Tissue**							
Batch R5964085								
WG3786243-2 DUP		**L2751405-44**						
Sulfur (S)-Total		650	590		mg/kg	8.7	40	20-JUL-23
WG3786243-3 LCS								
Sulfur (S)-Total			101.3		%		70-130	20-JUL-23
WG3786243-1 MB								
Sulfur (S)-Total			<100		mg/kg		100	20-JUL-23
TI-DRY-CCMS-N-VA	**Tissue**							
Batch R5964066								
WG3786210-2 DUP		**L2751405-2**						
Titanium (Ti)-Total		1.04	1.32		mg/kg	23	40	19-JUL-23
WG3786210-3 LCS								
Titanium (Ti)-Total			102.9		%		80-120	19-JUL-23
WG3786211-3 LCS								
Titanium (Ti)-Total			99.8		%		80-120	19-JUL-23
WG3786210-1 MB								
Titanium (Ti)-Total			<0.25		mg/kg		0.25	19-JUL-23
WG3786211-1 MB								
Titanium (Ti)-Total			<0.25		mg/kg		0.25	19-JUL-23
Batch R5964085								
WG3786243-2 DUP		**L2751405-44**						
Titanium (Ti)-Total		9.29	8.33		mg/kg	11	40	20-JUL-23
WG3786243-3 LCS								
Titanium (Ti)-Total			99.8		%		80-120	20-JUL-23
WG3786243-1 MB								
Titanium (Ti)-Total			<0.25		mg/kg		0.25	20-JUL-23

Legend:

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:

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	Duplicate results and limits are expressed in terms of absolute difference.
J,G	QC result did not meet ALS DQO. Refer to narrative comments for further information. Duplicate expressed in terms of absolute difference.
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,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.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.
[J]	The analyte was detected below the calibrated range but above the EDL.
[U]	The analyte was not detected above the EDL.

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.

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.

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

COC # 120258

Page: 1 of 3

Lab Submitted to : ALS
Lab Agreement no : Q84148
Lab Job ID:

Invoice to: Require Report:Y___ N___

Company Name: Matrix Solutions Inc.
Contact Name: Lindsay Olfert
Address:
PC:
Phone / Fax#: Ph: Fax:

Copy of Report to:
Matrix Solutions - EDS
Suite 600, 214 - 11th Avenue SW
Calgary, Alberta, Canada
T2R 0K1
Ph: 403-237-0606 Fax: 403-263-2493
email invoices to ap@matrix-solutions.com

Matrix Project # : 15067-503
Matrix Proj. Name: 15067-503
Location: SHTC
Sampler's Name(s): L. Olfert / C. Mackenzie

AFE #:

REGULATORY REQUIREMENTS: (check)
- [✓] Alberta Tier 1
- [ ] BC CSR
- [ ] Alberta SW FAL
- [ ] Canadian Drinking Water
- [ ] CCME FAL
- [ ] SPIGEC
- [ ] SEQG

Other: SEE QUOTE Q84148

SERVICE REQUESTED:
- [ ] RUSH (Please ensure you contact the lab) Due Date:
- [x] REGULAR Turnaround

REPORT DISTRIBUTION: always send to eds@matrix-solutions.com
- [x] Additional Emails: lolfert@matrix-solutions.com

	Sample Number (14 digits only) yr-mth-day	Sample Point Name	Depth (m)	Sample Type	Date/Time Sampled	Quanity # of Containers J/V	Bags	Bottles	Digins & Furans	Conventionals PCBs	PAH/TEC	Total Nitrogen	Metals	L2751405-COFC	HOLD
1	15067230620001	plot 70		moss	June 19/23		1	3							X
2	002	plot 70		LAB TEA			1	3	X	X		X	X		
3	002	plot 123		moss			1	3							X
4	102	plot 123		LAB TEA			1	3	X	X		X	X		
5	003	plot 4		moss			1	3							X
6	103	plot 4		LAB TEA			1	3	X	X		X	X		
7	004	plot 71		moss			1	3							X
8	104	plot 71		LAB TEA			1	3	X	X		X	X		
9	005														
10	15067230620005	SV117		moss	June 20/23		1	3							X
11	105	SV 7		LAB TEA			1	3	X	X		X	X		
12	006	SV 114		moss			1	3							X
13	106	SV 114		LAB TEA			1	3	X	X		X	X		
14	007	SV 109		moss			1	3							X
15	107	SV 109		LAB TEA			1	3	X	X		X	X		

*For metals in water samples indicate if you want Total (T) or Dissolved (D) as part of "Analysis Required"

Preserved/Filtered

Relinquished by: Lindsay Olfert Date/Time: June 20/23 12pm
Signature:
Received by: Date/Time: 6/21/23 4:10 P.M
Signature:

COMMENTS/SPECIAL INSTRUCTIONS: REFER TO QUOTE Q84148

1.4, 8.4, 9.6

J = jars V = vials

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

COC # 120256

Page: 1 of 3

Lab Submitted to : ALS
Lab Agreement no : See p.1
Lab Job ID:

Invoice to: Require Report:Y___ N___

Company Name: See p.1
Contact Name:
Address:
PC:
Phone / Fax#: Ph: Fax:

Copy of Report to:
Matrix Solutions - EDS
Suite 600, 214 - 11th Avenue SW
Calgary, Alberta, Canada
T2R 0K1
Ph: 403-237-0606 Fax: 403-263-2493
email invoices to ap@matrix-solutions.com

Matrix Project # : 15867-503
Matrix Proj. Name: 15867-503
Location: SHTC
Sampler's Name(s): L. Offer / C. Mackenzie

AFE #:

REGULATORY REQUIREMENTS: (check)
- [ ] Alberta Tier 1 [ ] BC CSR
- [ ] Alberta SW FAL
- [ ] Canadian Drinking Water
- [ ] CCME FAL
- [ ] SPIGEC
- [ ] SEQG Other: See p.1

SERVICE REQUESTED:
- [ ] RUSH (Please ensure you contact the lab) Due Date:
- [x] REGULAR Turnaround

REPORT DISTRIBUTION: always send to eds@matrix-solutions.com
- [x] Additional Emails: See p.1

	Sample Number (14 digits only) yr-mth-day	Sample Point Name	Depth (m)	Sample Type	Date/Time Sampled	Quanity # of Containers J/V	Bags	Bottles	Dissolved Inorganics	Canberra PCBs	Total Nitrogen	Metals	A-Base	HOLD
1	15867230620008	SV109		moss	June 20/23		1	3						X
2	108	SV109		LAB TEA			1	3	X	X	X	X		
3	009	SV110		moss			1	3						X
4	109	SV110		LAB TEA			1	3	X	X	X	X		
5	010	SV102		moss			1	~~3~~ 2	~~X~~					X 2
6	110	SV102		LAB TEA			1	3	X	X	X	X		2
7	011	SV102		moss			1	3						X
8	111	SV102		LAB TEA			1	3	X	X	X	X		2
9	15867230619 301	Trip		BLANK	June 19/23			1						X
10	302	Field		BLANK				1					X	
11	15867230620303	Field		BLANK	June 20/23			1					X	
12	~~301~~	Trip		BLANK				D						X
13														
14														
15														

*For metals in water samples indicate if you want Total (T) or Dissolved (D) as part of "Analysis Required"

Preserved/Filtered

Relinquished by: Lindsay Offer Date/Time: June 21/23 12 pm
Signature:
Received by: Date/Time: 6/21/23 4.10 p.m
Signature:

COMMENTS/SPECIAL INSTRUCTIONS See p.1

1.4, 8.4, 9.6

J = jars V = vials

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

COC # 120257

Page: 3 of 3

Lab Submitted to : ALS
Lab Agreement no : Sceep.1
Lab Job ID:

Invoice to: Require Report:Y___ N___

Company Name: Sceep.1
Contact Name:
Address:
PC:
Phone / Fax#: Ph: Fax:

Copy of Report to:
Matrix Solutions - EDS
Suite 600, 214 - 11th Avenue SW
Calgary, Alberta, Canada
T2R 0K1
Ph: 403-237-0606 Fax: 403-263-2493
email invoices to ap@matrix-solutions.com

Matrix Project # : 15867-503
Matrix Proj. Name: 15867-503
Location: SHTC
Sampler's Name(s): L. Miller / Co MacKenzie

AFE #:

REGULATORY REQUIREMENTS: (check)
- ✓ Alberta Tier 1
- [ ] BC CSR
- [ ] Alberta SW FAL
- [ ] Canadian Drinking Water
- [ ] CCME FAL
- [ ] SPIGEC
- [ ] SEQG

Other: See p.1

SERVICE REQUESTED:
- [ ] RUSH (Please ensure you contact the lab) Due Date:
- [x] REGULAR Turnaround

REPORT DISTRIBUTION: always send to eds@matrix-solutions.com
- [x] Additional Emails: Sceep.1

	Sample Number (14 digits only) yr-mth-day	Sample Point Name	Depth (m)	Sample Type	Date/Time Sampled	Quanity # of Containers J/V	Bags	Bottles	Analysis Required: METALS	HOLD
1	15867230619 201	MB9		MOSSBAG	June 19/23		1		X	
2	202	MB4					1		X	
3	203	MB5					1		X	
4	204	SITE9					1		X	
5	205	SITE1					1		X	
6	206	SITE5					1		X	
7	207	MB15					1		X	
8	208	MB1					1		X	
9	209	MB2					1		X	
10	210	MB7					1		X	
11	15867230620 211	MB20			June 20/23		1		X	
12	15867230620 212	MB14					1		X	
13	15867230621213	MB50			June 21/23		1		X	
14	214	MB19					1		X	
15	MB8 ↓ 215	MB24					1		X	

*For metals in water samples indicate if you want Total (T) or Dissolved (D) as part of "Analysis Required"

Preserved/Filtered

Relinquished by: Lindsay Miller Date/Time: June 21/23 12pm
Signature:
Received by: Date/Time: 6/21/23 4:10 P.M
Signature:

COMMENTS/SPECIAL INSTRUCTIONS: Sceep.1

1.4, 9.4, 9.6

J = jars V = vials

Matrix Solutions Inc.
ATTN: Lindsay Oiffer
Suite 142 6325 Gateway Blvd
Edmonton AB T6H5H6

Date Received: 24-JUN-23
Report Date: 01-AUG-23 13:55 (MT)
Version: FINAL

Client Phone: 780-989-8347

Certificate of Analysis

Lab Work Order #: L2751451

Project P.O. #: NOT SUBMITTED
Job Reference: 15867-503
C of C Numbers: 120245
Legal Site Desc:

Kieran Tordoff
Account Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2751451-1 15867230621216							
Sampled By: CLIENT on 21-JUN-23							
Matrix: MOSS							
Miscellaneous Parameters							
% Moisture	16.2		0.50	%		12-JUL-23	R5963338
Mercury (Hg)-Total	0.0388		0.0050	mg/kg	14-JUL-23	25-JUL-23	R5964336
Silver (Ag)-Total	0.0060		0.0050	mg/kg	14-JUL-23	17-JUL-23	R5964036
Sulfur (S)-Total	580		100	mg/kg	14-JUL-23	17-JUL-23	R5964036
Titanium (Ti)-Total	7.96		0.25	mg/kg	14-JUL-23	17-JUL-23	R5964036
Metals in Tissue by CRC ICPMS (DRY)							
Aluminum (Al)-Total	259		2.0	mg/kg	14-JUL-23	17-JUL-23	R5964036
Antimony (Sb)-Total	0.042		0.010	mg/kg	14-JUL-23	17-JUL-23	R5964036
Arsenic (As)-Total	0.250		0.020	mg/kg	14-JUL-23	17-JUL-23	R5964036
Barium (Ba)-Total	4.08		0.050	mg/kg	14-JUL-23	17-JUL-23	R5964036
Beryllium (Be)-Total	<0.010		0.010	mg/kg	14-JUL-23	17-JUL-23	R5964036
Bismuth (Bi)-Total	<0.010		0.010	mg/kg	14-JUL-23	17-JUL-23	R5964036
Boron (B)-Total	<1.0		1.0	mg/kg	14-JUL-23	17-JUL-23	R5964036
Cadmium (Cd)-Total	0.0173		0.0050	mg/kg	14-JUL-23	17-JUL-23	R5964036
Calcium (Ca)-Total	59		20	mg/kg	14-JUL-23	17-JUL-23	R5964036
Cesium (Cs)-Total	0.0332		0.0050	mg/kg	14-JUL-23	17-JUL-23	R5964036
Chromium (Cr)-Total	0.693		0.050	mg/kg	14-JUL-23	17-JUL-23	R5964036
Cobalt (Co)-Total	0.132		0.020	mg/kg	14-JUL-23	17-JUL-23	R5964036
Copper (Cu)-Total	1.57		0.10	mg/kg	14-JUL-23	17-JUL-23	R5964036
Iron (Fe)-Total	329		3.0	mg/kg	14-JUL-23	17-JUL-23	R5964036
Lead (Pb)-Total	0.570		0.020	mg/kg	14-JUL-23	17-JUL-23	R5964036
Lithium (Li)-Total	<0.50		0.50	mg/kg	14-JUL-23	17-JUL-23	R5964036
Magnesium (Mg)-Total	64.9		2.0	mg/kg	14-JUL-23	17-JUL-23	R5964036
Manganese (Mn)-Total	8.92		0.050	mg/kg	14-JUL-23	17-JUL-23	R5964036
Molybdenum (Mo)-Total	0.396		0.020	mg/kg	14-JUL-23	17-JUL-23	R5964036
Nickel (Ni)-Total	0.47		0.20	mg/kg	14-JUL-23	17-JUL-23	R5964036
Phosphorus (P)-Total	403		10	mg/kg	14-JUL-23	17-JUL-23	R5964036
Potassium (K)-Total	42		20	mg/kg	14-JUL-23	17-JUL-23	R5964036
Rubidium (Rb)-Total	0.264		0.050	mg/kg	14-JUL-23	17-JUL-23	R5964036
Selenium (Se)-Total	0.068		0.050	mg/kg	14-JUL-23	17-JUL-23	R5964036
Sodium (Na)-Total	40		20	mg/kg	14-JUL-23	17-JUL-23	R5964036
Strontium (Sr)-Total	0.469		0.050	mg/kg	14-JUL-23	17-JUL-23	R5964036
Tellurium (Te)-Total	<0.020		0.020	mg/kg	14-JUL-23	17-JUL-23	R5964036
Thallium (Tl)-Total	<0.0020		0.0020	mg/kg	14-JUL-23	17-JUL-23	R5964036
Tin (Sn)-Total	0.54		0.10	mg/kg	14-JUL-23	17-JUL-23	R5964036
Uranium (U)-Total	0.0298		0.0020	mg/kg	14-JUL-23	17-JUL-23	R5964036
Vanadium (V)-Total	0.55		0.10	mg/kg	14-JUL-23	17-JUL-23	R5964036
Zinc (Zn)-Total	5.16		0.50	mg/kg	14-JUL-23	17-JUL-23	R5964036
Zirconium (Zr)-Total	0.50		0.20	mg/kg	14-JUL-23	17-JUL-23	R5964036
L2751451-2 15867230621217							
Sampled By: CLIENT on 21-JUN-23							
Matrix: MOSS							
Miscellaneous Parameters							
% Moisture	15.6		0.50	%		12-JUL-23	R5963338
Mercury (Hg)-Total	0.0355		0.0050	mg/kg	14-JUL-23	25-JUL-23	R5964336
Silver (Ag)-Total	0.0055		0.0050	mg/kg	14-JUL-23	17-JUL-23	R5964036
Sulfur (S)-Total	540		100	mg/kg	14-JUL-23	17-JUL-23	R5964036
Titanium (Ti)-Total	7.04		0.25	mg/kg	14-JUL-23	17-JUL-23	R5964036
Metals in Tissue by CRC ICPMS (DRY)							
Aluminum (Al)-Total	245		2.0	mg/kg	14-JUL-23	17-JUL-23	R5964036

* 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
L2751451-2 15867230621217							
Sampled By: CLIENT on 21-JUN-23							
Matrix: MOSS							
Metals in Tissue by CRC ICPMS (DRY)							
Antimony (Sb)-Total	0.043		0.010	mg/kg	14-JUL-23	17-JUL-23	R5964036
Arsenic (As)-Total	0.268		0.020	mg/kg	14-JUL-23	17-JUL-23	R5964036
Barium (Ba)-Total	3.73		0.050	mg/kg	14-JUL-23	17-JUL-23	R5964036
Beryllium (Be)-Total	<0.010		0.010	mg/kg	14-JUL-23	17-JUL-23	R5964036
Bismuth (Bi)-Total	<0.010		0.010	mg/kg	14-JUL-23	17-JUL-23	R5964036
Boron (B)-Total	<1.0		1.0	mg/kg	14-JUL-23	17-JUL-23	R5964036
Cadmium (Cd)-Total	0.0155		0.0050	mg/kg	14-JUL-23	17-JUL-23	R5964036
Calcium (Ca)-Total	54		20	mg/kg	14-JUL-23	17-JUL-23	R5964036
Cesium (Cs)-Total	0.0322		0.0050	mg/kg	14-JUL-23	17-JUL-23	R5964036
Chromium (Cr)-Total	0.632		0.050	mg/kg	14-JUL-23	17-JUL-23	R5964036
Cobalt (Co)-Total	0.138		0.020	mg/kg	14-JUL-23	17-JUL-23	R5964036
Copper (Cu)-Total	1.35		0.10	mg/kg	14-JUL-23	17-JUL-23	R5964036
Iron (Fe)-Total	329		3.0	mg/kg	14-JUL-23	17-JUL-23	R5964036
Lead (Pb)-Total	0.507		0.020	mg/kg	14-JUL-23	17-JUL-23	R5964036
Lithium (Li)-Total	<0.50		0.50	mg/kg	14-JUL-23	17-JUL-23	R5964036
Magnesium (Mg)-Total	59.8		2.0	mg/kg	14-JUL-23	17-JUL-23	R5964036
Manganese (Mn)-Total	8.34		0.050	mg/kg	14-JUL-23	17-JUL-23	R5964036
Molybdenum (Mo)-Total	0.356		0.020	mg/kg	14-JUL-23	17-JUL-23	R5964036
Nickel (Ni)-Total	0.43		0.20	mg/kg	14-JUL-23	17-JUL-23	R5964036
Phosphorus (P)-Total	404		10	mg/kg	14-JUL-23	17-JUL-23	R5964036
Potassium (K)-Total	34		20	mg/kg	14-JUL-23	17-JUL-23	R5964036
Rubidium (Rb)-Total	0.201		0.050	mg/kg	14-JUL-23	17-JUL-23	R5964036
Selenium (Se)-Total	0.075		0.050	mg/kg	14-JUL-23	17-JUL-23	R5964036
Sodium (Na)-Total	36		20	mg/kg	14-JUL-23	17-JUL-23	R5964036
Strontium (Sr)-Total	0.432		0.050	mg/kg	14-JUL-23	17-JUL-23	R5964036
Tellurium (Te)-Total	<0.020		0.020	mg/kg	14-JUL-23	17-JUL-23	R5964036
Thallium (Tl)-Total	<0.0020		0.0020	mg/kg	14-JUL-23	17-JUL-23	R5964036
Tin (Sn)-Total	1.01		0.10	mg/kg	14-JUL-23	17-JUL-23	R5964036
Uranium (U)-Total	0.0288		0.0020	mg/kg	14-JUL-23	17-JUL-23	R5964036
Vanadium (V)-Total	0.50		0.10	mg/kg	14-JUL-23	17-JUL-23	R5964036
Zinc (Zn)-Total	4.99		0.50	mg/kg	14-JUL-23	17-JUL-23	R5964036
Zirconium (Zr)-Total	0.52		0.20	mg/kg	14-JUL-23	17-JUL-23	R5964036
L2751451-3 15867230621218							
Sampled By: CLIENT on 21-JUN-23							
Matrix: MOSS							
Miscellaneous Parameters							
% Moisture	16.3		0.50	%		12-JUL-23	R5963338
Mercury (Hg)-Total	0.0350		0.0050	mg/kg	14-JUL-23	25-JUL-23	R5964336
Silver (Ag)-Total	0.0058		0.0050	mg/kg	14-JUL-23	17-JUL-23	R5964036
Sulfur (S)-Total	530		100	mg/kg	14-JUL-23	17-JUL-23	R5964036
Titanium (Ti)-Total	6.70		0.25	mg/kg	14-JUL-23	17-JUL-23	R5964036
Metals in Tissue by CRC ICPMS (DRY)							
Aluminum (Al)-Total	237		2.0	mg/kg	14-JUL-23	17-JUL-23	R5964036
Antimony (Sb)-Total	0.045		0.010	mg/kg	14-JUL-23	17-JUL-23	R5964036
Arsenic (As)-Total	0.255		0.020	mg/kg	14-JUL-23	17-JUL-23	R5964036
Barium (Ba)-Total	3.92		0.050	mg/kg	14-JUL-23	17-JUL-23	R5964036
Beryllium (Be)-Total	<0.010		0.010	mg/kg	14-JUL-23	17-JUL-23	R5964036
Bismuth (Bi)-Total	<0.010		0.010	mg/kg	14-JUL-23	17-JUL-23	R5964036
Boron (B)-Total	<1.0		1.0	mg/kg	14-JUL-23	17-JUL-23	R5964036
Cadmium (Cd)-Total	0.0178		0.0050	mg/kg	14-JUL-23	17-JUL-23	R5964036
Calcium (Ca)-Total	52		20	mg/kg	14-JUL-23	17-JUL-23	R5964036

* 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
L2751451-3 15867230621218							
Sampled By: CLIENT on 21-JUN-23							
Matrix: MOSS							
Metals in Tissue by CRC ICPMS (DRY)							
Cesium (Cs)-Total	0.0286		0.0050	mg/kg	14-JUL-23	17-JUL-23	R5964036
Chromium (Cr)-Total	0.592		0.050	mg/kg	14-JUL-23	17-JUL-23	R5964036
Cobalt (Co)-Total	0.140		0.020	mg/kg	14-JUL-23	17-JUL-23	R5964036
Copper (Cu)-Total	1.56		0.10	mg/kg	14-JUL-23	17-JUL-23	R5964036
Iron (Fe)-Total	319		3.0	mg/kg	14-JUL-23	17-JUL-23	R5964036
Lead (Pb)-Total	0.571		0.020	mg/kg	14-JUL-23	17-JUL-23	R5964036
Lithium (Li)-Total	<0.50		0.50	mg/kg	14-JUL-23	17-JUL-23	R5964036
Magnesium (Mg)-Total	62.7		2.0	mg/kg	14-JUL-23	17-JUL-23	R5964036
Manganese (Mn)-Total	8.82		0.050	mg/kg	14-JUL-23	17-JUL-23	R5964036
Molybdenum (Mo)-Total	0.392		0.020	mg/kg	14-JUL-23	17-JUL-23	R5964036
Nickel (Ni)-Total	0.42		0.20	mg/kg	14-JUL-23	17-JUL-23	R5964036
Phosphorus (P)-Total	409		10	mg/kg	14-JUL-23	17-JUL-23	R5964036
Potassium (K)-Total	35		20	mg/kg	14-JUL-23	17-JUL-23	R5964036
Rubidium (Rb)-Total	0.214		0.050	mg/kg	14-JUL-23	17-JUL-23	R5964036
Selenium (Se)-Total	0.071		0.050	mg/kg	14-JUL-23	17-JUL-23	R5964036
Sodium (Na)-Total	34		20	mg/kg	14-JUL-23	17-JUL-23	R5964036
Strontium (Sr)-Total	0.405		0.050	mg/kg	14-JUL-23	17-JUL-23	R5964036
Tellurium (Te)-Total	<0.020		0.020	mg/kg	14-JUL-23	17-JUL-23	R5964036
Thallium (Tl)-Total	<0.0020		0.0020	mg/kg	14-JUL-23	17-JUL-23	R5964036
Tin (Sn)-Total	0.37		0.10	mg/kg	14-JUL-23	17-JUL-23	R5964036
Uranium (U)-Total	0.0293		0.0020	mg/kg	14-JUL-23	17-JUL-23	R5964036
Vanadium (V)-Total	0.48		0.10	mg/kg	14-JUL-23	17-JUL-23	R5964036
Zinc (Zn)-Total	4.55		0.50	mg/kg	14-JUL-23	17-JUL-23	R5964036
Zirconium (Zr)-Total	0.42		0.20	mg/kg	14-JUL-23	17-JUL-23	R5964036

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

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
AG-DRY-CCMS-N-VA	Tissue	Silver in Tissue by CRC ICPMS (DRY)	EPA 200.3/6020A

This method is conducted following British Columbia Lab Manual method "Metals in Animal Tissue and Vegetation (Biota) - Prescriptive". Tissue samples are homogenized and sub-sampled prior to hotblock digestion with nitric and hydrochloric acids, in combination with addition of hydrogen peroxide. Instrumental analysis is by collision cell inductively coupled plasma - mass spectrometry (modified from EPA Method 6020A).

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.

HG-DRY-CVAFS-N-VA	Tissue	Mercury in Tissue by CVAAS (DRY)	EPA 200.3, EPA 245.7

This method is conducted following British Columbia Lab Manual method "Metals in Animal Tissue and Vegetation (Biota) - Prescriptive". Tissue samples are homogenized and sub-sampled prior to hotblock digestion with nitric and hydrochloric acids, in combination with addition of hydrogen peroxide. Analysis is by atomic fluorescence spectrophotometry or atomic absorption spectrophotometry, adapted from US EPA Method 245.7.

MET-DRY-CCMS-N-VA	Tissue	Metals in Tissue by CRC ICPMS (DRY)	EPA 200.3/6020A

This method is conducted following British Columbia Lab Manual method "Metals in Animal Tissue and Vegetation (Biota) - Prescriptive". Tissue samples are homogenized and sub-sampled prior to hotblock digestion with nitric and hydrochloric acids, in combination with addition of hydrogen peroxide. Instrumental analysis is by collision cell inductively coupled plasma - mass spectrometry (modified from EPA Method 6020A).

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.

MOISTURE-TISS-VA	Tissue	% Moisture in Tissues	Puget Sound WQ Authority, Apr 1997

This analysis is carried out gravimetrically by drying the sample at 105 C for a minimum of six hours.

S-DRY-CCMS-N-VA	Tissue	Sulfur in Tissue by CRC ICPMS (DRY)	EPA 200.3/6020A

This method is conducted following British Columbia Lab Manual method "Metals in Animal Tissue and Vegetation (Biota) - Prescriptive". Tissue samples are homogenized and sub-sampled prior to hotblock digestion with nitric and hydrochloric acids, in combination with addition of hydrogen peroxide. Instrumental analysis is by collision cell inductively coupled plasma - mass spectrometry (modified from EPA Method 6020A).

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.

TI-DRY-CCMS-N-VA	Tissue	Ti in Tissue by CRC ICPMS (DRY)	EPA 200.3/6020A

This method is conducted following British Columbia Lab Manual method "Metals in Animal Tissue and Vegetation (Biota) - Prescriptive". Tissue samples are homogenized and sub-sampled prior to hotblock digestion with nitric and hydrochloric acids, in combination with addition of hydrogen peroxide. Instrumental analysis is by collision cell inductively coupled plasma - mass spectrometry (modified from EPA Method 6020A).

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.

** 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
VA	ALS ENVIRONMENTAL - VANCOUVER, BRITISH COLUMBIA, CANADA

Chain of Custody Numbers:

120245

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**

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 wwt - 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

Client: Matrix Solutions Inc.
Suite 142 6325 Gateway Blvd
Edmonton AB T6H5H6
Contact: Lindsay Oiffer

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
AG-DRY-CCMS-N-VA	**Tissue**							
Batch R5964036								
WG3786171-4 DUP		**L2751451-1**						
Silver (Ag)-Total		0.0060	0.0057		mg/kg	5.9	40	17-JUL-23
WG3786171-6 LCS								
Silver (Ag)-Total			94.5		%		80-120	17-JUL-23
WG3786171-1 MB								
Silver (Ag)-Total			<0.0050		mg/kg		0.005	17-JUL-23
HG-DRY-CVAFS-N-VA	**Tissue**							
Batch R5964336								
WG3786171-4 DUP		**L2751451-1**						
Mercury (Hg)-Total		0.0388	0.0373		mg/kg	4.0	40	25-JUL-23
WG3786171-6 LCS								
Mercury (Hg)-Total			97.0		%		80-120	25-JUL-23
WG3786171-1 MB								
Mercury (Hg)-Total			<0.0050		mg/kg		0.005	25-JUL-23
MET-DRY-CCMS-N-VA	**Tissue**							
Batch R5964036								
WG3786171-4 DUP		**L2751451-1**						
Aluminum (Al)-Total		259	260		mg/kg	0.5	40	17-JUL-23
Antimony (Sb)-Total		0.042	0.042		mg/kg	0.0	40	17-JUL-23
Arsenic (As)-Total		0.250	0.253		mg/kg	1.5	40	17-JUL-23
Barium (Ba)-Total		4.08	4.20		mg/kg	2.9	40	17-JUL-23
Beryllium (Be)-Total		<0.010	<0.010	RPD-NA	mg/kg	N/A	40	17-JUL-23
Bismuth (Bi)-Total		<0.010	<0.010	RPD-NA	mg/kg	N/A	40	17-JUL-23
Boron (B)-Total		<1.0	<1.0	RPD-NA	mg/kg	N/A	40	17-JUL-23
Cadmium (Cd)-Total		0.0173	0.0163		mg/kg	6.4	40	17-JUL-23
Calcium (Ca)-Total		59	62		mg/kg	4.9	60	17-JUL-23
Cesium (Cs)-Total		0.0332	0.0322		mg/kg	3.0	40	17-JUL-23
Chromium (Cr)-Total		0.693	0.687		mg/kg	0.8	40	17-JUL-23
Cobalt (Co)-Total		0.132	0.132		mg/kg	0.6	40	17-JUL-23
Copper (Cu)-Total		1.57	1.59		mg/kg	1.1	40	17-JUL-23
Iron (Fe)-Total		329	336		mg/kg	2.0	40	17-JUL-23
Lead (Pb)-Total		0.570	0.571		mg/kg	0.3	40	17-JUL-23
Lithium (Li)-Total		<0.50	<0.50	RPD-NA	mg/kg	N/A	40	17-JUL-23
Magnesium (Mg)-Total		64.9	64.7		mg/kg	0.3	40	17-JUL-23
Manganese (Mn)-Total		8.92	8.81		mg/kg	1.2	40	17-JUL-23
Molybdenum (Mo)-Total		0.396	0.405		mg/kg	2.4	40	17-JUL-23

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-DRY-CCMS-N-VA	**Tissue**							
Batch R5964036								
WG3786171-4 DUP		**L2751451-1**						
Nickel (Ni)-Total		0.47	0.47		mg/kg	0.5	40	17-JUL-23
Phosphorus (P)-Total		403	403		mg/kg	0.0	40	17-JUL-23
Potassium (K)-Total		42	45		mg/kg	5.5	40	17-JUL-23
Rubidium (Rb)-Total		0.264	0.279		mg/kg	5.4	40	17-JUL-23
Selenium (Se)-Total		0.068	0.072		mg/kg	5.2	40	17-JUL-23
Sodium (Na)-Total		40	40		mg/kg	1.5	40	17-JUL-23
Strontium (Sr)-Total		0.469	0.454		mg/kg	3.1	60	17-JUL-23
Tellurium (Te)-Total		<0.020	<0.020	RPD-NA	mg/kg	N/A	40	17-JUL-23
Thallium (Tl)-Total		<0.0020	<0.0020	RPD-NA	mg/kg	N/A	40	17-JUL-23
Tin (Sn)-Total		0.54	0.58		mg/kg	5.7	40	17-JUL-23
Uranium (U)-Total		0.0298	0.0299		mg/kg	0.2	40	17-JUL-23
Vanadium (V)-Total		0.55	0.55		mg/kg	0.7	40	17-JUL-23
Zinc (Zn)-Total		5.16	5.03		mg/kg	2.4	40	17-JUL-23
Zirconium (Zr)-Total		0.50	0.48		mg/kg	3.0	40	17-JUL-23
WG3786171-6 LCS								
Aluminum (Al)-Total			111.2		%		80-120	17-JUL-23
Antimony (Sb)-Total			102.9		%		80-120	17-JUL-23
Arsenic (As)-Total			114.2		%		80-120	17-JUL-23
Barium (Ba)-Total			108.0		%		80-120	17-JUL-23
Beryllium (Be)-Total			111.1		%		80-120	17-JUL-23
Bismuth (Bi)-Total			106.4		%		80-120	17-JUL-23
Boron (B)-Total			105.1		%		80-120	17-JUL-23
Cadmium (Cd)-Total			105.6		%		80-120	17-JUL-23
Calcium (Ca)-Total			106.9		%		80-120	17-JUL-23
Cesium (Cs)-Total			113.2		%		80-120	17-JUL-23
Chromium (Cr)-Total			107.0		%		80-120	17-JUL-23
Cobalt (Co)-Total			107.7		%		80-120	17-JUL-23
Copper (Cu)-Total			106.1		%		80-120	17-JUL-23
Iron (Fe)-Total			111.3		%		80-120	17-JUL-23
Lead (Pb)-Total			106.4		%		80-120	17-JUL-23
Lithium (Li)-Total			111.4		%		80-120	17-JUL-23
Magnesium (Mg)-Total			111.6		%		80-120	17-JUL-23
Manganese (Mn)-Total			111.9		%		80-120	17-JUL-23
Molybdenum (Mo)-Total			100.3		%		80-120	17-JUL-23

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-DRY-CCMS-N-VA	**Tissue**							
Batch R5964036								
WG3786171-6 LCS								
Nickel (Ni)-Total			108.0		%		80-120	17-JUL-23
Phosphorus (P)-Total			116.6		%		80-120	17-JUL-23
Potassium (K)-Total			114.9		%		80-120	17-JUL-23
Rubidium (Rb)-Total			111.3		%		80-120	17-JUL-23
Selenium (Se)-Total			106.9		%		80-120	17-JUL-23
Sodium (Na)-Total			108.5		%		80-120	17-JUL-23
Strontium (Sr)-Total			105.4		%		80-120	17-JUL-23
Tellurium (Te)-Total			99.6		%		80-120	17-JUL-23
Thallium (Tl)-Total			106.4		%		80-120	17-JUL-23
Tin (Sn)-Total			106.3		%		80-120	17-JUL-23
Uranium (U)-Total			103.8		%		80-120	17-JUL-23
Vanadium (V)-Total			109.0		%		80-120	17-JUL-23
Zinc (Zn)-Total			108.1		%		80-120	17-JUL-23
Zirconium (Zr)-Total			99.2		%		80-120	17-JUL-23
WG3786171-1 MB								
Aluminum (Al)-Total			<2.0		mg/kg		2	17-JUL-23
Antimony (Sb)-Total			<0.010		mg/kg		0.01	17-JUL-23
Arsenic (As)-Total			<0.020		mg/kg		0.02	17-JUL-23
Barium (Ba)-Total			<0.050		mg/kg		0.05	17-JUL-23
Beryllium (Be)-Total			<0.010		mg/kg		0.01	17-JUL-23
Bismuth (Bi)-Total			<0.010		mg/kg		0.01	17-JUL-23
Boron (B)-Total			<1.0		mg/kg		1	17-JUL-23
Cadmium (Cd)-Total			<0.0050		mg/kg		0.005	17-JUL-23
Calcium (Ca)-Total			<20		mg/kg		20	17-JUL-23
Cesium (Cs)-Total			<0.0050		mg/kg		0.005	17-JUL-23
Chromium (Cr)-Total			<0.050		mg/kg		0.05	17-JUL-23
Cobalt (Co)-Total			<0.020		mg/kg		0.02	17-JUL-23
Copper (Cu)-Total			<0.10		mg/kg		0.1	17-JUL-23
Iron (Fe)-Total			<3.0		mg/kg		3	17-JUL-23
Lead (Pb)-Total			<0.020		mg/kg		0.02	17-JUL-23
Lithium (Li)-Total			<0.50		mg/kg		0.5	17-JUL-23
Magnesium (Mg)-Total			<2.0		mg/kg		2	17-JUL-23
Manganese (Mn)-Total			<0.050		mg/kg		0.05	17-JUL-23
Molybdenum (Mo)-Total			<0.020		mg/kg		0.02	17-JUL-23

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-DRY-CCMS-N-VA	**Tissue**							
Batch R5964036								
WG3786171-1 MB								
Nickel (Ni)-Total			<0.20		mg/kg		0.2	17-JUL-23
Phosphorus (P)-Total			<10		mg/kg		10	17-JUL-23
Potassium (K)-Total			<20		mg/kg		20	17-JUL-23
Rubidium (Rb)-Total			<0.050		mg/kg		0.05	17-JUL-23
Selenium (Se)-Total			<0.050		mg/kg		0.05	17-JUL-23
Sodium (Na)-Total			<20		mg/kg		20	17-JUL-23
Strontium (Sr)-Total			<0.050		mg/kg		0.05	17-JUL-23
Tellurium (Te)-Total			<0.020		mg/kg		0.02	17-JUL-23
Thallium (Tl)-Total			<0.0020		mg/kg		0.002	17-JUL-23
Tin (Sn)-Total			<0.10		mg/kg		0.1	17-JUL-23
Uranium (U)-Total			<0.0020		mg/kg		0.002	17-JUL-23
Vanadium (V)-Total			<0.10		mg/kg		0.1	17-JUL-23
Zinc (Zn)-Total			<0.50		mg/kg		0.5	17-JUL-23
Zirconium (Zr)-Total			<0.20		mg/kg		0.2	17-JUL-23
MOISTURE-TISS-VA	**Tissue**							
Batch R5963338								
WG3785964-2 LCS								
% Moisture			99.8		%		90-110	12-JUL-23
WG3785964-1 MB								
% Moisture			<0.50		%		0.5	12-JUL-23
S-DRY-CCMS-N-VA	**Tissue**							
Batch R5964036								
WG3786171-4 DUP		**L2751451-1**						
Sulfur (S)-Total		580	580		mg/kg	0.9	40	17-JUL-23
WG3786171-6 LCS								
Sulfur (S)-Total			107.2		%		70-130	17-JUL-23
WG3786171-1 MB								
Sulfur (S)-Total			<100		mg/kg		100	17-JUL-23
TI-DRY-CCMS-N-VA	**Tissue**							
Batch R5964036								
WG3786171-4 DUP		**L2751451-1**						
Titanium (Ti)-Total		7.96	7.77		mg/kg	2.4	40	17-JUL-23
WG3786171-6 LCS								
Titanium (Ti)-Total			99.5		%		80-120	17-JUL-23
WG3786171-1 MB								

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
TI-DRY-CCMS-N-VA	**Tissue**							
Batch R5964036								
WG3786171-1 MB								
Titanium (Ti)-Total			<0.25		mg/kg		0.25	17-JUL-23

Legend:

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:

Qualifier	Description
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

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.

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.

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

COC # 120245

Page: 1 of 1

Lab Submitted to : ALS
Lab Agreement no : ~~See pt~~ Q84148
Lab Job ID:

Invoice to: Require Report:Y___ N___

Company Name: ~~See pt~~ Matrix Solutions
Contact Name: Lindsay Sifter
Address:
PC:
Phone / Fax#: Ph: Fax:
AFE #:

Copy of Report to:
Matrix Solutions - EDS
Suite 600, 214 - 11th Avenue SW
Calgary, Alberta, Canada
T2R 0K1
Ph: 403-237-0606 Fax: 403-263-2493
email invoices to ap@matrix-solutions.com

Matrix Project # : 15867-503
Matrix Proj. Name: 15867-503
Location: SHTC
Sampler's Name(s): L. Sifter / C. MacKenzie

REGULATORY REQUIREMENTS: (check)
- [X] Alberta Tier 1
- [ ] BC CSR
- [ ] Alberta SW FAL
- [ ] Canadian Drinking Water
- [ ] CCME FAL
- [ ] SPIGEC
- [ ] SEQG

Other: ~~See pt~~ Q84148

SERVICE REQUESTED:
- [ ] **RUSH** (Please ensure you contact the lab) **Due Date:**
- [X] REGULAR Turnaround

REPORT DISTRIBUTION: always send to eds@matrix-solutions.com
- [X] Additional Emails: ~~See pt~~ lsifter@matrix-solutions
  ~~Lin~~ cmckenzie@matrix-solutions

	Sample Number (14 digits only) yr-mth-day	Sample Point Name	Depth (m)	Sample Type	Date/Time Sampled	Quanity # of Containers J/V	Bags	Bottles	Analysis Required: Metals	HOLD
1	15867 230621 216	unexposed moss	–	moss	June 21/23		1		X	
2	217	↓	–	↓	↓		1		X	
3	218	↓	–	↓	↓		1		X	
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										

L2751451-COFC

*For metals in water samples indicate if you want Total (T) or Dissolved (D) as part of "Analysis Required"

Preserved/Filtered

Relinquished by: Lindsay Sifter **Date/Time:** June 21/23 3pm
Signature:
Received by: RM **Date/Time:** 6/22/23
Signature:

COMMENTS/SPECIAL INSTRUCTIONS 1pm

J = jars V = vials

APPENDIX D
Summary Statistics

Appendix D.1

Summary of Basic Statistics and Trend Analysis - Labrador Tea Leaves

Veolia

W ½ 06-067-08 W5M

Sample Point	Summary Statistics [3]								2023 Increases			Mann Kendal Trend Analysis [1,2,3]				
	n	Non-Detect Count	% Non-Detect	Minimum	25th Percentile	Median	75th Percentile	Maximum	Previous Value [5]	2023 Value	> 40% Change (*)	n	Non-Detect Count	% Non-Detect	Tau [4]	p-value [4]
Ag (mg/kg)																
Labrador Tea Leaves																
Plot 4	11	8	73	0.0025	0.00515	0.1	0.1	0.15	0.005	0.003	No	16	13	81.25	---	---
Plot 11	11	11	100	0.0025	0.0025	0.1	0.115	0.15	0.003	0.003	No	16	16	100.00	---	---
Plot 70	11	11	100	0.0025	0.0025	0.1	0.1	0.15	0.003	0.003	No	16	16	100.00	---	---
Plot 71	11	11	100	0.0025	0.0025	0.1	0.1	0.15	0.003	0.003	No	16	16	100.00	---	---
Plot 109	11	11	100	0.0025	0.0025	0.1	0.1	0.15	0.003	0.003	No	16	16	100.00	---	---
Plot 110	11	11	100	0.0025	0.0025	0.1	0.1	0.15	0.003	0.003	No	16	16	100.00	---	---
Plot 114	11	11	100	0.0025	0.0025	0.1	0.1	0.15	0.003	0.003	No	16	16	100.00	---	---
Plot 117	11	11	100	0.0025	0.0025	0.1	0.1	0.15	0.003	0.003	No	16	16	100.00	---	---
Plot 123	11	11	100	0.0025	0.0025	0.1	0.1	0.15	0.003	0.003	No	16	16	100.00	---	---
Plot 402	11	11	100	0.0025	0.0025	0.1	0.1	0.15	0.003	0.003	No	16	16	100.00	---	---
Al (%)																
Labrador Tea Leaves																
Plot 4	11	0	0	0.0056	0.00812	0.0115	0.014	0.0384	0.011	0.012	No	16	0	0.00	-0.450	**0.017**
Plot 11	11	0	0	0.0047	0.00659	0.0076	0.010485	0.0203	0.008	0.01	No	16	0	0.00	-0.467	**0.013**
Plot 70	11	0	0	0.0051	0.00833	0.00918	0.0195	0.0763	0.009	0.009	No	16	0	0.00	-0.567	**0.003**
Plot 71	11	0	0	0.0034	0.0058	0.00666	0.0092	0.0473	0.007	0.007	No	16	0	0.00	-0.517	**0.006**
Plot 109	11	0	0	0.00493	0.00541	0.00706	0.0086	0.0228	0.007	0.007	No	16	0	0.00	-0.483	**0.010**
Plot 110	11	0	0	0.0033	0.00538	0.00686	0.01015	0.0187	0.007	0.008	No	16	0	0.00	-0.483	**0.010**
Plot 114	11	0	0	0.00539	0.00685	0.00826	0.0123	0.0187	0.005	0.01	**Yes**	16	0	0.00	-0.575	**0.002**
Plot 117	11	0	0	0.005	0.006745	0.00823	0.0111	0.0162	0.008	0.01	No	16	0	0.00	-0.350	0.065
Plot 123	11	0	0	0.0027	0.005305	0.00644	0.01075	0.014	0.006	0.007	No	16	0	0.00	-0.383	**0.043**
Plot 402	11	0	0	0.0047	0.007795	0.00943	0.01395	0.042	0.01	0.009	No	16	0	0.00	-0.400	**0.034**
As (mg/kg)																
Labrador Tea Leaves																
Plot 4	11	4	36	0.025	0.0375	0.06	0.079	0.25	0.079	0.079	No	16	8	50.00	---	---
Plot 11	11	6	55	0.024	0.025	0.026	0.0325	0.05	0.038	0.033	No	16	10	62.50	---	---
Plot 70	11	6	55	0.01	0.025	0.025	0.028	0.075	0.03	0.022	No	16	10	62.50	---	---
Plot 71	11	6	55	0.022	0.025	0.025	0.027	0.05	0.034	0.029	No	16	10	62.50	---	---
Plot 109	11	6	55	0.01	0.025	0.031	0.0465	0.18	0.043	0.01	No	16	10	62.50	---	---
Plot 110	11	6	55	0.01	0.0235	0.025	0.046	0.063	0.042	0.024	No	16	10	62.50	---	---
Plot 114	11	4	36	0.025	0.0305	0.048	0.0515	0.084	0.049	0.041	No	16	8	50.00	---	---
Plot 117	11	7	64	0.01	0.0225	0.025	0.0345	0.052	0.035	0.01	No	16	11	68.75	---	---
Plot 123	11	9	82	0.01	0.01	0.025	0.025	0.101	0.025	0.01	No	16	14	87.50	---	---
Plot 402	11	7	64	0.01	0.025	0.025	0.0295	0.05	0.042	0.026	No	16	11	68.75	---	---

Appendix D.1

Summary of Basic Statistics and Trend Analysis - Labrador Tea Leaves

Veolia

W ½ 06-067-08 W5M

Sample Point	Summary Statistics [3]								2023 Increases			Mann Kendal Trend Analysis [1,2,3]				
	n	Non-Detect Count	% Non-Detect	Minimum	25th Percentile	Median	75th Percentile	Maximum	Previous Value [5]	2023 Value	> 40% Change (*)	n	Non-Detect Count	% Non-Detect	Tau [4]	p-value [4]
Cd (mg/kg)																
Labrador Tea Leaves																
Plot 4	11	3	27	0.0097	0.01065	0.0132	0.02	0.08	0.011	0.017	**Yes**	16	4	25.00	-0.358	0.054
Plot 11	11	10	91	0.0025	0.0025	0.01	0.0115	0.02	0.003	0.014	**Yes**	16	15	93.75	---	---
Plot 70	11	9	82	0.0025	0.0039	0.01	0.01	0.02	0.005	0.008	**Yes**	16	14	87.50	---	---
Plot 71	11	9	82	0.0025	0.0025	0.01	0.01115	0.04	0.003	0.012	**Yes**	16	14	87.50	---	---
Plot 109	11	6	55	0.0025	0.0068	0.01	0.01	0.11	0.007	0.009	No	16	9	56.25	---	---
Plot 110	11	10	91	0.0025	0.0025	0.01	0.01	0.02	0.003	0.009	**Yes**	16	15	93.75	---	---
Plot 114	11	4	36	0.01	0.01155	0.0163	0.01905	0.05	0.017	0.018	No	16	6	37.50	-0.083	0.674
Plot 117	11	10	91	0.0025	0.0025	0.01	0.01	0.02	0.003	0.012	**Yes**	16	14	87.50	---	---
Plot 123	11	10	91	0.0025	0.0025	0.01	0.01	0.02	0.003	0.011	**Yes**	16	15	93.75	---	---
Plot 402	11	8	73	0.0025	0.0062	0.01	0.01	0.02	0.006	0.01	**Yes**	16	13	81.25	---	---
Cr (mg/kg)																
Labrador Tea Leaves																
Plot 4	11	6	55	0.131	0.191	0.5	0.5	0.5	0.201	0.184	No	16	10	62.50	---	---
Plot 11	11	6	55	0.099	0.163	0.5	0.5	0.65	0.122	0.099	No	16	11	68.75	---	---
Plot 70	11	4	36	0.093	0.115	0.5	0.5	3.7	0.123	0.107	No	16	8	50.00	---	---
Plot 71	11	6	55	0.091	0.1015	0.5	0.5	0.5	0.103	0.091	No	16	11	68.75	---	---
Plot 109	11	6	55	0.074	0.128	0.5	0.5	0.5	0.141	0.074	No	16	11	68.75	---	---
Plot 110	11	6	55	0.07	0.1215	0.5	0.5	0.5	0.146	0.097	No	16	11	68.75	---	---
Plot 114	11	6	55	0.103	0.1765	0.5	0.5	0.5	0.103	0.134	No	16	11	68.75	---	---
Plot 117	11	6	55	0.062	0.1095	0.5	0.5	0.5	0.108	0.085	No	16	11	68.75	---	---
Plot 123	11	6	55	0.053	0.157	0.5	0.5	0.5	0.243	0.093	No	16	11	68.75	---	---
Plot 402	11	6	55	0.074	0.1215	0.5	0.5	0.5	0.15	0.108	No	16	10	62.50	---	---
Cu (mg/kg)																
Labrador Tea Leaves																
Plot 4	11	0	0	2.8	3.65	3.96	5	10	3.96	3.67	No	16	0	0.00	-0.258	0.176
Plot 11	11	0	0	2.3	3.3	3.54	3.9	24	3.94	3.53	No	16	0	0.00	-0.150	0.444
Plot 70	11	0	0	2.8	3.16	3.4	3.915	11	4.03	3.21	No	16	0	0.00	-0.167	0.390
Plot 71	11	0	0	1.8	2.75	2.9	3.325	4.4	3.17	2.38	No	16	0	0.00	-0.350	0.064
Plot 109	11	0	0	2.1	2.865	3.29	3.55	6.8	3.43	2.7	No	16	0	0.00	-0.250	0.192
Plot 110	11	0	0	1.8	3.155	3.24	3.685	12	3.67	3.24	No	16	0	0.00	-0.200	0.299
Plot 114	11	0	0	2.9	3.905	4.14	4.54	5.7	4.14	3.71	No	16	0	0.00	-0.175	0.366
Plot 117	11	0	0	2.5	3.23	3.6	3.765	6.9	3.91	3.58	No	16	0	0.00	-0.175	0.367
Plot 123	11	0	0	1.4	3.105	3.6	3.865	9.5	3.73	3.04	No	16	0	0.00	-0.158	0.417
Plot 402	11	0	0	2.4	3.31	3.5	4.375	10	3.86	3.41	No	16	0	0.00	-0.108	0.589

Appendix D.1

Summary of Basic Statistics and Trend Analysis - Labrador Tea Leaves

Veolia

W ½ 06-067-08 W5M

Sample Point	Summary Statistics [3]								2023 Increases			Mann Kendal Trend Analysis [1,2,3]				
	n	Non-Detect Count	% Non-Detect	Minimum	25th Percentile	Median	75th Percentile	Maximum	Previous Value [5]	2023 Value	> 40% Change (*)	n	Non-Detect Count	% Non-Detect	Tau [4]	p-value [4]
Hg (mg/kg)																
Labrador Tea Leaves																
Plot 4	11	4	36	0.0213	0.025	0.025	0.04295	0.39	0.041	0.024	No	16	4	25.00	-0.117	0.546
Plot 11	11	4	36	0.01	0.0183	0.0218	0.0285	0.39	0.021	0.022	No	16	6	37.50	0.033	0.888
Plot 70	11	3	27	0.0107	0.01395	0.02	0.025	0.18	0.012	0.016	No	16	7	43.75	0.075	0.705
Plot 71	11	2	18	0.0172	0.0206	0.025	0.045	0.2	0.017	0.023	No	16	4	25.00	-0.033	0.890
Plot 109	11	3	27	0.0128	0.01795	0.025	0.0325	0.28	0.019	0.017	No	16	6	37.50	0.000	1.000
Plot 110	11	3	27	0.0093	0.01925	0.025	0.0325	0.18	0.022	0.019	No	16	5	31.25	-0.075	0.708
Plot 114	11	4	36	0.0196	0.02375	0.025	0.0355	0.14	0.022	0.023	No	16	6	37.50	-0.183	0.326
Plot 117	11	3	27	0.0085	0.01765	0.0226	0.025	0.26	0.017	0.018	No	16	4	25.00	-0.175	0.349
Plot 123	11	3	27	0.0112	0.01425	0.025	0.0275	0.09	0.015	0.014	No	16	6	37.50	-0.025	0.925
Plot 402	11	4	36	0.0135	0.01905	0.0201	0.025	0.25	0.019	0.019	No	16	7	43.75	0.067	0.735
Mo (mg/kg)																
Labrador Tea Leaves																
Plot 4	11	2	18	0.02	0.046	0.05	0.053	0.14	0.055	0.046	No	16	4	25.00	-0.092	0.647
Plot 11	11	7	64	0.01	0.015	0.021	0.042	0.065	0.01	0.02	**Yes**	16	9	56.25	---	---
Plot 70	11	9	82	0.01	0.01	0.021	0.0375	0.05	0.021	0.01	No	16	11	68.75	---	---
Plot 71	11	8	73	0.01	0.01	0.023	0.041	0.05	0.01	0.021	**Yes**	16	10	62.50	---	---
Plot 109	11	3	27	0.03	0.036	0.05	0.053	0.1	0.056	0.035	No	16	5	31.25	-0.092	0.643
Plot 110	11	7	64	0.01	0.0175	0.027	0.046	0.05	0.042	0.01	No	16	10	62.50	---	---
Plot 114	11	3	27	0.026	0.042	0.05	0.052	0.063	0.054	0.026	No	16	5	31.25	-0.067	0.745
Plot 117	11	7	64	0.01	0.01	0.021	0.05	0.078	0.021	0.01	No	16	9	56.25	---	---
Plot 123	11	7	64	0.01	0.01	0.025	0.0415	0.17	0.033	0.01	No	16	9	56.25	---	---
Plot 402	11	6	55	0.01	0.016	0.033	0.05	0.083	0.023	0.01	No	16	7	43.75	-0.175	0.343
Ni (mg/kg)																
Labrador Tea Leaves																
Plot 4	11	5	45	0.5	0.54	0.59	0.865	1	0.73	0.59	No	16	9	56.25	---	---
Plot 11	11	6	55	0.36	0.44	0.5	0.575	1	0.41	0.49	No	16	11	68.75	---	---
Plot 70	11	5	45	0.38	0.5	0.51	0.76	3.3	0.51	0.4	No	16	9	56.25	---	---
Plot 71	11	6	55	0.33	0.435	0.5	0.55	1	0.6	0.43	No	16	11	68.75	---	---
Plot 109	11	6	55	0.5	0.5	0.75	0.895	1	0.75	0.98	No	16	11	68.75	---	---
Plot 110	11	6	55	0.29	0.465	0.5	0.58	1	0.43	0.65	**Yes**	16	11	68.75	---	---
Plot 114	11	3	27	0.5	0.85	1	1.15	1.52	0.59	1.52	**Yes**	16	8	50.00	---	---
Plot 117	11	5	45	0.47	0.5	0.77	1	1.31	0.91	1.31	**Yes**	16	10	62.50	---	---
Plot 123	11	5	45	0.5	0.595	0.79	1	1	0.81	1.0	No	16	10	62.50	---	---
Plot 402	11	6	55	0.4	0.495	0.5	0.625	1	0.71	0.49	No	16	10	62.50	---	---

Appendix D.1

Summary of Basic Statistics and Trend Analysis - Labrador Tea Leaves

Veolia

W ½ 06-067-08 W5M

Sample Point	Summary Statistics [3]								2023 Increases			Mann Kendal Trend Analysis [1,2,3]				
	n	Non-Detect Count	% Non-Detect	Minimum	25th Percentile	Median	75th Percentile	Maximum	Previous Value [5]	2023 Value	> 40% Change (*)	n	Non-Detect Count	% Non-Detect	Tau [4]	p-value [4]
Pb (mg/kg)																
Labrador Tea Leaves																
Plot 4	11	1	9	0.317	0.496	0.68	0.96	1.9	0.385	0.317	No	16	6	37.50	-0.242	0.162
Plot 11	11	5	45	0.071	0.128	0.25	0.285	1.5	0.12	0.09	No	16	10	62.50	---	---
Plot 70	11	6	55	0.044	0.059	0.25	0.25	1.5	0.065	0.062	No	16	11	68.75	---	---
Plot 71	11	6	55	0.042	0.056	0.25	0.25	1.5	0.054	0.057	No	16	11	68.75	---	---
Plot 109	11	3	27	0.089	0.239	0.25	0.684	4.2	0.228	0.089	No	16	8	50.00	---	---
Plot 110	11	5	45	0.052	0.0735	0.25	0.25	2.7	0.093	0.066	No	16	10	62.50	---	---
Plot 114	11	5	45	0.24	0.25	0.292	0.6165	1.5	0.292	0.24	No	16	10	62.50	---	---
Plot 117	11	6	55	0.07	0.084	0.25	0.25	1.5	0.076	0.072	No	16	11	68.75	---	---
Plot 123	11	6	55	0.032	0.0515	0.25	0.25	1.5	0.051	0.057	No	16	10	62.50	---	---
Plot 402	11	6	55	0.047	0.0585	0.25	0.25	1.5	0.084	0.057	No	16	11	68.75	---	---
Sb (mg/kg)																
Labrador Tea Leaves																
Plot 4	11	5	45	0.017	0.0245	0.05	0.055	2.2	0.017	0.043	**Yes**	16	9	56.25	---	---
Plot 11	11	9	82	0.005	0.005	0.05	0.1025	2.2	0.005	0.005	No	16	14	87.50	---	---
Plot 70	11	8	73	0.005	0.005	0.05	0.095	2.1	0.005	0.012	**Yes**	16	13	81.25	---	---
Plot 71	11	10	91	0.005	0.005	0.05	0.055	2.2	0.005	0.005	No	16	15	93.75	---	---
Plot 109	11	8	73	0.005	0.0115	0.05	0.055	2.3	0.005	0.005	No	16	13	81.25	---	---
Plot 110	11	9	82	0.005	0.005	0.05	0.095	2.2	0.005	0.005	No	16	14	87.50	---	---
Plot 114	11	6	55	0.005	0.017	0.05	0.055	2.3	0.011	0.005	No	16	11	68.75	---	---
Plot 117	11	9	82	0.005	0.005	0.05	0.095	2.1	0.005	0.005	No	16	14	87.50	---	---
Plot 123	11	9	82	0.005	0.005	0.05	0.09	2.2	0.005	0.005	No	16	14	87.50	---	---
Plot 402	11	9	82	0.005	0.005	0.05	0.085	2.3	0.005	0.005	No	16	14	87.50	---	---
Sn (mg/kg)																
Labrador Tea Leaves																
Plot 4	11	9	82	0.05	0.095	0.5	0.5	0.5	0.41	0.05	No	16	13	81.25	---	---
Plot 11	11	8	73	0.05	0.105	0.5	0.5	2.3	0.17	0.05	No	16	12	75.00	---	---
Plot 70	11	10	91	0.05	0.05	0.5	0.5	0.5	0.37	0.05	No	16	14	87.50	---	---
Plot 71	11	11	100	0.05	0.05	0.5	0.5	0.5	0.05	0.05	No	16	15	93.75	---	---
Plot 109	11	10	91	0.05	0.05	0.5	0.5	0.5	0.11	0.05	No	16	14	87.50	---	---
Plot 110	11	11	100	0.05	0.05	0.5	0.5	0.5	0.05	0.05	No	16	15	93.75	---	---
Plot 114	11	10	91	0.05	0.05	0.5	0.5	0.5	0.14	0.05	No	16	14	87.50	---	---
Plot 117	11	9	82	0.05	0.09	0.5	0.5	0.5	0.15	0.05	No	16	13	81.25	---	---
Plot 123	11	9	82	0.05	0.075	0.5	0.5	0.5	0.13	0.05	No	16	12	75.00	---	---
Plot 402	11	10	91	0.05	0.05	0.5	0.5	0.5	0.18	0.05	No	16	14	87.50	---	---

Appendix D.1

Summary of Basic Statistics and Trend Analysis - Labrador Tea Leaves

Veolia

W ½ 06-067-08 W5M

Sample Point	Summary Statistics [3]								2023 Increases			Mann Kendal Trend Analysis [1,2,3]				
	n	Non-Detect Count	% Non-Detect	Minimum	25th Percentile	Median	75th Percentile	Maximum	Previous Value [5]	2023 Value	> 40% Change (*)	n	Non-Detect Count	% Non-Detect	Tau [4]	p-value [4]
Zn (mg/kg)																
Labrador Tea Leaves																
Plot 4	11	0	0	21	29	32	36.3	41	34.0	41.0	No	16	0	0.00	0.367	0.052
Plot 11	11	0	0	16	26.15	27.3	30.05	34.2	26.3	32.9	No	16	0	0.00	0.250	0.192
Plot 70	11	0	0	20	24.25	25.4	28.65	31	25.5	30.3	No	16	0	0.00	-0.017	0.964
Plot 71	11	0	0	15	19.3	22.7	25.45	30.5	25.6	25.3	No	16	0	0.00	-0.233	0.223
Plot 109	11	0	0	16	21.4	22.5	24.35	43.1	24.7	22.5	No	16	0	0.00	-0.067	0.753
Plot 110	11	0	0	13	21.45	23.5	28.9	37.4	26.9	28.8	No	16	0	0.00	-0.017	0.964
Plot 114	11	0	0	20	25	27.4	29.15	31.2	29.1	26.8	No	16	0	0.00	0.108	0.588
Plot 117	11	0	0	15	18.95	20.1	22	30	22.0	25.4	No	16	0	0.00	-0.025	0.928
Plot 123	11	1	9	5	19.85	21	21.35	23.2	21.0	23.2	No	16	1	6.25	0.100	0.620
Plot 402	11	0	0	17	23.3	25	27.3	36	25.0	29.4	No	16	0	0.00	0.150	0.444

Appendix D.1

Summary of Basic Statistics and Trend Analysis - Labrador Tea Leaves

Veolia

W ½ 06-067-08 W5M

Sample Point	Summary Statistics [3]								2023 Increases			Mann Kendal Trend Analysis [1,2,3]				
	n	Non-Detect Count	% Non-Detect	Minimum	25th Percentile	Median	75th Percentile	Maximum	Previous Value [5]	2023 Value	> 40% Change (*)	n	Non-Detect Count	% Non-Detect	Tau [4]	p-value [4]
Total PCB Congeners (mg/kg)																
Labrador Tea Leaves																
Plot 4	11	0	0	0.0349	0.06395	0.071	0.159	0.298	0.035	0.068	**Yes**	20	0	0.00	-0.532	**0.001**
Plot 11	11	0	0	0.00475	0.00504	0.00762	0.0154	0.0238	0.005	0.011	**Yes**	20	0	0.00	-0.595	**0.000**
Plot 70	11	0	0	0.000142	0.0001645	0.000276	0.000388	0.00199	0.0004	0.002	**Yes**	20	0	0.00	-0.468	**0.004**
Plot 71	11	0	0	0.0000741	0.00012885	0.00019	0.000877	0.0022	0.0004	0.001	**Yes**	20	0	0.00	-0.442	**0.007**
Plot 109	11	0	0	0.0184	0.02545	0.0378	0.08805	0.208	0.025	0.038	**Yes**	20	0	0.00	-0.453	**0.006**
Plot 110	11	0	0	0.00157	0.00166	0.00321	0.00485	0.0131	0.002	0.003	**Yes**	20	0	0.00	-0.511	**0.002**
Plot 114	11	0	0	0.00824	0.0111	0.0173	0.0289	0.0524	0.008	0.02	**Yes**	20	0	0.00	-0.595	**0.000**
Plot 117	11	0	0	0.00224	0.002715	0.00517	0.00661	0.0111	0.003	0.008	**Yes**	20	0	0.00	-0.568	**0.001**
Plot 123	11	0	0	0.000587	0.000794	0.00124	0.001705	0.00256	0.001	0.002	**Yes**	20	0	0.00	-0.653	**0.000**
Plot 402	11	0	0	0.0003	0.0003835	0.000567	0.000682	0.00269	0.001	0.001	No	20	1	5.00	-0.511	**0.002**
PCB TEQ (ng TEQ/kg)																
Labrador Tea Leaves																
Plot 4	11	0	0	3.45	9.295	11.7	19.1	41.7	3.45	10.1	**Yes**	20	0	0.00	-0.647	**0.000**
Plot 11	11	0	0	0.556	0.7805	1.04	2.375	3.58	0.556	2.2	**Yes**	20	0	0.00	-0.337	**0.041**
Plot 70	11	0	0	0	0.0143	0.0299	0.1085	0.419	0.104	0.419	**Yes**	20	0	0.00	0.295	0.073
Plot 71	11	0	0	0	0.02255	0.0757	0.1075	0.288	0.103	0.259	**Yes**	20	0	0.00	0.321	**0.049**
Plot 109	11	0	0	1.67	2.96	4.44	9.485	23.8	1.67	4.44	**Yes**	20	0	0.00	-0.326	**0.048**
Plot 110	11	0	0	0.06	0.124	0.296	0.466	0.873	0.137	0.296	**Yes**	20	0	0.00	0.063	0.721
Plot 114	11	0	0	0.636	1.27	1.66	3.56	6.49	0.636	1.11	**Yes**	20	0	0.00	-0.611	**0.000**
Plot 117	11	0	0	0.06	0.2995	0.437	0.679	0.867	0.135	0.867	**Yes**	20	0	0.00	0.016	0.948
Plot 123	11	0	0	0.01	0.0577	0.0744	0.217	0.234	0.065	0.214	**Yes**	20	0	0.00	0.105	0.537
Plot 402	11	0	0	0.01	0.04215	0.0705	0.229	0.434	0.112	0.332	**Yes**	20	0	0.00	0.379	**0.017**
PCDD/PCDF TEQ (ng TEQ/kg)																
Labrador Tea Leaves																
Plot 4	11	0	0	0.268	0.78	1.01	1.63	8.82	0.785	8.82	**Yes**	22	0	0.00	-0.329	**0.034**
Plot 11	11	0	0	0.22	0.29	0.487	0.608	4.51	0.633	4.51	**Yes**	22	0	0.00	-0.087	0.592
Plot 70	11	0	0	0.0968	0.1875	0.299	0.5075	6.26	0.572	6.26	**Yes**	22	0	0.00	-0.022	0.910
Plot 71	11	0	0	0.0869	0.2875	0.509	0.725	8.81	0.782	8.81	**Yes**	22	0	0.00	0.177	0.259
Plot 109	11	0	0	0.183	0.743	1.06	1.39	3.88	0.587	3.88	**Yes**	22	0	0.00	0.026	0.888
Plot 110	11	0	0	0.107	0.517	0.773	0.8965	2.34	0.634	2.34	**Yes**	22	0	0.00	0.320	**0.039**
Plot 114	11	0	0	0.168	0.3535	0.69	1.47	4.65	0.377	4.65	**Yes**	22	0	0.00	0.026	0.888
Plot 117	11	0	0	0.171	0.2165	0.648	0.8505	9.45	0.648	9.45	**Yes**	22	0	0.00	0.264	0.091
Plot 123	11	0	0	0.0722	0.3845	0.559	1.345	6.57	0.532	6.57	**Yes**	21	0	0.00	0.314	**0.050**
Plot 402	11	0	0	0.118	0.3045	0.642	1.34	4.29	0.642	4.29	**Yes**	22	0	0.00	0.312	**0.045**
Total TEQ (ng TEQ/kg)																
Labrador Tea Leaves																
Plot 4	11	0	0	4.235	9.8165	15.11	20.96	43.16	4.235	18.92	**Yes**	22	0	0.00	-0.351	**0.024**
Plot 11	11	0	0	0.875	1.2335	1.527	3.2135	6.71	1.189	6.71	**Yes**	22	0	0.00	-0.221	0.159
Plot 70	11	0	0	0.1407	0.2149	0.3752	0.55805	6.679	0.676	6.679	**Yes**	22	0	0.00	0.004	1.000
Plot 71	11	0	0	0.12021	0.2987	0.5457	0.9205	9.069	0.885	9.069	**Yes**	22	0	0.00	0.173	0.271
Plot 109	11	0	0	2.257	3.572	6.762	10.4905	27.63	2.257	8.32	**Yes**	22	0	0.00	-0.082	0.612
Plot 110	11	0	0	0.305	0.8833	1.191	1.4325	2.636	0.771	2.636	**Yes**	22	0	0.00	0.307	**0.048**
Plot 114	11	0	0	1.013	2.158	3.45	5.692	7.18	1.013	5.76	**Yes**	22	0	0.00	-0.212	0.176
Plot 117	11	0	0	0.47	0.6805	0.894	1.389	10.317	0.783	10.317	**Yes**	22	0	0.00	0.316	**0.042**
Plot 123	11	0	0	0.2861	0.4517	0.732	1.3852	6.784	0.597	6.784	**Yes**	21	0	0.00	0.319	**0.046**
Plot 402	11	0	0	0.305	0.5235	0.754	1.40785	4.622	0.754	4.622	**Yes**	22	0	0.00	0.442	**0.004**

Notes:

* - "Yes" if 2018 sample exceeded 40% 2017 sample value

bold - P-value <0.05 considered to be statistically significant

[1] - less than 6 samples - Mann Kendall trend test not performed

[2] - greater than 50% non detect - Mann Kendall trend test not performed

[3] - if a value was non-detect a value 1/2 the MDL was used for the purpose of trend analysis and determining summary statistics

[4] - a negative tau value indicates a decreasing trend and a positive tau value indicates an increasing trend. A p-value < 0.05 indicates the trend is statistically significant.

[5] - for Labrador tea, the previous value was from 2021; for live moss, 2020

Appendix D.2

Summary of Basic Statistics 2023 - Moss Bags by Deposition Zone (Acid-Washed Samples)

Veolia

W ½ 06-067-08 W5M

Sample Point	Summary Statistics [3,4]							
	n	Non-Detect Count	% Non-Detect	Minimum	25th Percentile	Median	75th Percentile	Maximum
Ag (mg/kg)								
Zone 1	4	0	0.0	0.0075	0.009375	0.0105	0.011475	0.0129
Zone 2	9	0	0.0	0.0072	0.0081	0.0089	0.01	0.0174
Unexposed	3	0	0.0	0.0055	0.00565	0.0058	0.0059	0.006
Al (%)								
Zone 1	4	0	0.0	0.0267	0.02715	0.02915	0.03275	0.038
Zone 2	9	0	0.0	0.0242	0.0286	0.0295	0.0314	0.0396
Unexposed	3	0	0.0	0.0237	0.0241	0.0245	0.0252	0.0259
As (mg/kg)								
Zone 1	4	0	0.0	0.229	0.26875	0.29	0.30475	0.325
Zone 2	9	0	0.0	0.247	0.26	0.266	0.273	0.323
Unexposed	3	0	0.0	0.25	0.2525	0.255	0.2615	0.268
Cd (mg/kg)								
Zone 1	4	0	0.0	0.0269	0.0278	0.03015	0.035525	0.0455
Zone 2	9	0	0.0	0.0161	0.0213	0.0237	0.029	0.0445
Unexposed	3	0	0.0	0.0155	0.0164	0.0173	0.01755	0.0178
Cr (mg/kg)								
Zone 1	4	0	0.0	0.588	0.6255	0.6895	0.75775	0.808
Zone 2	9	0	0.0	0.555	0.697	0.72	0.763	0.885
Unexposed	3	0	0.0	0.592	0.612	0.632	0.6625	0.693
Cu (mg/kg)								
Zone 1	4	0	0.0	1.64	1.835	1.93	2.015	2.18
Zone 2	9	0	0.0	1.55	1.67	1.75	1.9	2.19
Unexposed	3	0	0.0	1.35	1.455	1.56	1.565	1.57
Hg (mg/kg)								
Zone 1	4	0	0.0	0.0453	0.05205	0.05515	0.0583	0.0652
Zone 2	9	0	0.0	0.0445	0.0448	0.0463	0.0499	0.0584
Unexposed	3	0	0.0	0.035	0.03525	0.0355	0.03715	0.0388
Mo (mg/kg)								
Zone 1	4	0	0.0	0.396	0.4005	0.4075	0.424	0.457
Zone 2	9	0	0.0	0.365	0.399	0.407	0.429	0.813
Unexposed	3	0	0.0	0.356	0.374	0.392	0.394	0.396
Ni (mg/kg)								
Zone 1	4	0	0.0	0.44	0.455	0.52	0.6175	0.73
Zone 2	9	0	0.0	0.42	0.46	0.48	0.59	0.77
Unexposed	3	0	0.0	0.42	0.425	0.43	0.45	0.47
Pb (mg/kg)								
Zone 1	4	0	0.0	0.581	0.7415	0.8115	0.911	1.16
Zone 2	9	0	0.0	0.572	0.605	0.638	0.655	0.706
Unexposed	3	0	0.0	0.507	0.5385	0.57	0.5705	0.571
Sb (mg/kg)								
Zone 1	4	0	0.0	0.049	0.0655	0.0715	0.07525	0.085
Zone 2	9	0	0.0	0.049	0.053	0.056	0.057	0.067
Unexposed	3	0	0.0	0.042	0.0425	0.043	0.044	0.045
Sn (mg/kg)								
Zone 1	4	0	0.0	0.14	0.2075	0.245	0.2975	0.41
Zone 2	9	0	0.0	0.11	0.15	0.3	0.36	0.87
Unexposed	3	0	0.0	0.37	0.455	0.54	0.775	1.01
Zn (mg/kg)								
Zone 1	4	0	0.0	6.42	7.2375	7.795	9.085	12.1
Zone 2	9	0	0.0	4.89	5.9	6.36	8.16	10.4
Unexposed	3	0	0.0	4.55	4.77	4.99	5.075	5.16

Notes:

[1] - if a value was non-detect a value 1/2 the MDL was used for the purpose of trend analysis and determining summary stati

[2] - Max/min values are representative of the values reported at any plot within the zone.

Appendix D.3

Comparison of Deposition Zones 1 and 2 (2009 - 2023) to Unexposed Moss in Moss Bags

Veolia

W ½ 06-067-08 W5M

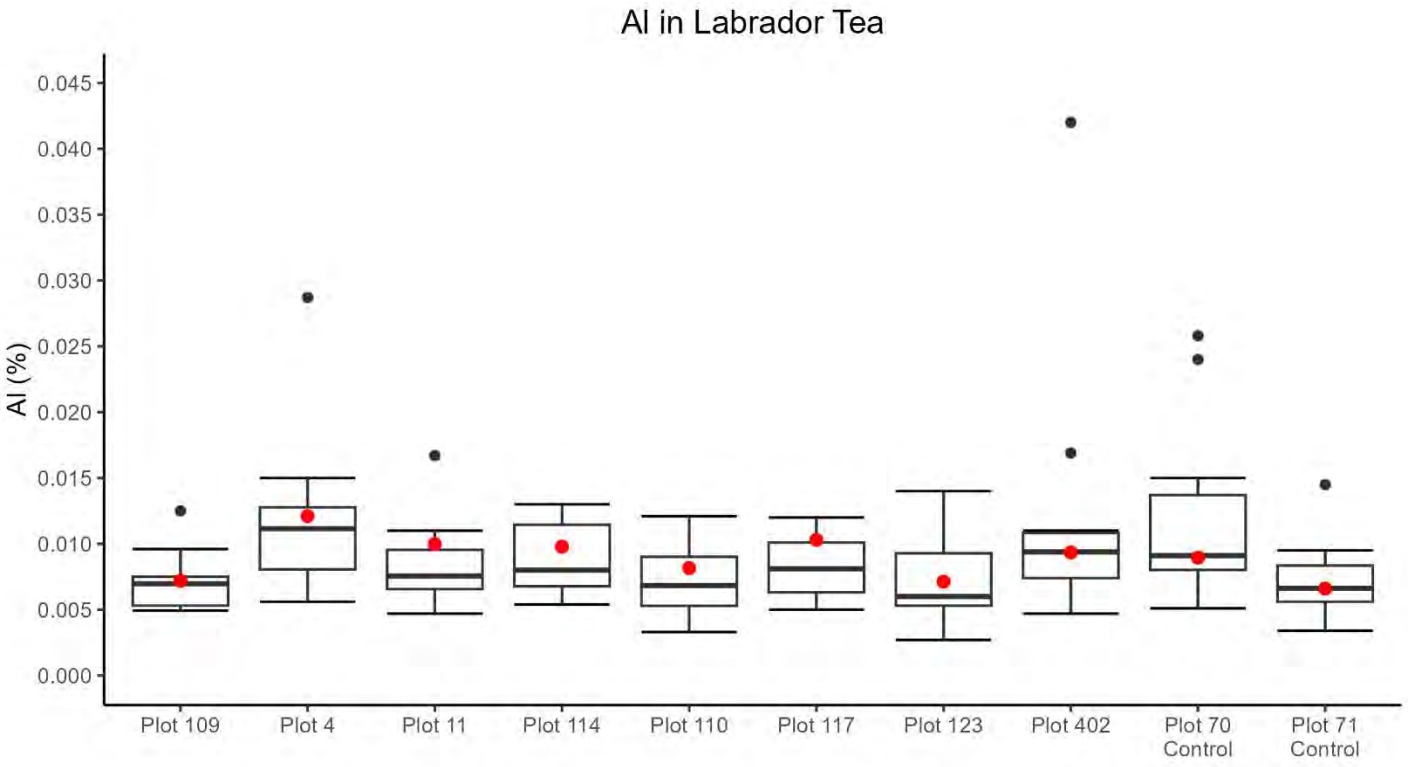
Parameter	Average Concentrations																														
	2009			2011			2013			2014			2016			2018			2019			2021			2022			2023		
	Unexposed	Zone 1	Zone 2	Unexposed	Zone 1	Zone 2	Unexposed	Zone 1	Zone 2	Unexposed	Zone 1	Zone 2	Unexp	Zone 1	Zone 2	Unexposed	Zone 1	Zone 2	Unexposed	Zone 1	Zone 2	Unexposed	Zone 1	Zone 2	Unexposed	Zone 1	Zone 2	Unexposed	Zone 1	Zone 2
	n=3	n=4	n=10	n=3	n=3	n=11	n=3	n=4	n=9	n=3	n=4	n=11	n=3	n=4	n=8	n=3	n=4	n=10	n=3	n=3	n=12	n=3	n=4	n=11	n=3	n=4	n=11	n=3	n=4	n=11
Ag (mg/kg)	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.100	0.100	0.100	0.100	0.100	0.182	0.006	0.009	0.008	0.023	0.018	0.017	0.007	0.010	0.008	0.006	0.010	0.010
Al (%)	0.203	0.269	0.263	0.233	0.226	0.234	0.254	0.221	0.221	0.144	**0.386**	**0.163**	0.053	0.065	0.070	0.052	0.057	0.060	0.020	0.022	0.021	0.096	0.101	0.089	0.026	0.028	0.031	0.025	0.031	0.031
As (mg/kg)	0.296	0.369	0.369	0.359	0.312	0.329	0.251	0.250	0.209	0.238	**0.539**	**0.279**	0.277	0.285	0.304	0.283	0.498	0.341	0.215	**0.273**	**0.194**	0.640	0.628	0.600	0.264	0.317	0.285	0.258	0.284	0.271
Cd (mg/kg)	0.150	0.170	0.115	0.127	**0.227**	**0.111**	0.133	0.243	0.189	0.090	**0.170**	**0.109**	0.123	**0.170**	**0.139**	0.140	0.218	0.183	0.003	**0.018**	**0.010**	0.008	0.012	0.009	0.014	0.024	0.025	0.017	0.033	0.027
Cr (mg/kg)	2.533	3.250	3.490	4.300	4.567	4.991	6.267	2.850	3.111	2.833	8.275	4.618	1.100	0.875	1.050	1.667	4.075	3.870	0.526	0.512	0.478	1.917	2.168	1.996	0.725	0.735	0.738	0.639	0.694	0.733
Cu (mg/kg)	3.900	5.200	4.540	5.333	**5.433**	**3.327**	5.333	5.850	4.656	2.633	3.950	3.073	4.600	3.850	6.113	5.133	5.650	5.860	0.707	**1.073**	**0.731**	5.023	2.138	1.867	1.517	1.938	1.763	1.493	1.920	1.786
Hg (mg/kg)	0.063	0.088	0.059	0.063	0.067	0.050	0.070	0.075	0.062	0.400	0.380	0.377	0.037	0.074	0.066	0.079	0.145	0.128	0.029	**0.043**	**0.036**	0.068	0.075	0.067	0.039	0.068	0.051	0.036	0.055	0.049
Mo (mg/kg)	0.080	0.240	0.254	0.090	0.160	0.216	0.190	0.220	0.181	0.117	0.323	0.167	0.167	0.263	0.231	0.267	0.483	0.395	0.330	0.342	0.328	0.972	0.755	0.699	0.421	0.474	0.457	0.381	0.417	0.457
Ni (mg/kg)	1.000	2.350	2.060	11.567	6.800	6.864	3.767	2.075	2.000	1.000	4.525	2.655	1.233	1.550	1.688	1.800	3.225	3.190	0.397	0.430	0.393	0.697	0.748	0.721	0.433	0.568	0.615	0.440	0.553	0.539
Pb (mg/kg)	4.467	8.475	7.720	5.167	6.867	7.664	4.300	**5.575**	**4.144**	3.600	**8.050**	**4.309**	3.967	5.125	4.788	4.333	5.925	5.030	3.107	**2.917**	**2.500**	3.320	2.940	2.431	0.554	0.979	0.745	0.549	0.841	0.633
Sb (mg/kg)	0.050	7.400	9.190	0.133	16.600	8.218	2.433	18.200	20.844	0.333	18.100	10.873	0.197	11.450	10.663	0.130	**10.125**	**16.600**	0.031	0.055	0.047	0.071	0.055	0.052	0.049	0.074	0.064	0.043	0.069	0.056
Sn (mg/kg)	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	3.243	3.023	2.986	1.943	0.105	0.069	0.410	0.578	1.155	0.640	0.260	0.321
Zn (mg/kg)	18.700	38.675	46.340	21.067	40.433	34.109	33.800	37.125	37.289	22.033	32.900	31.118	19.000	31.500	26.375	27.000	32.250	37.400	2.337	**6.257**	**3.317**	2.637	4.005	3.412	5.377	7.270	6.409	4.900	8.528	7.196

Zone significantly different from Unexposed (p<0.05)

bold Significant difference between Zone 1 and Zone 2 (p<0.05)

red Non-detect values present - 1/2 of MDL was used to calculate average concentrations

APPENDIX E
Box Plots and Trend Graphs – Annual Monitoring Plots



- Median
- Interquartile Range (IQR) (25th to 75th percentile)
- 1.5×IQR boundary or most extreme data value
- Outlier (Data point greater than 1.5×IQR)
- 2023 Sample

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

Aluminum

Date:	Project:	Technical:	Reviewer:	Drawn:
October 17, 2023	15867-503	C. Ayer	L. Oiffer	J. Rich

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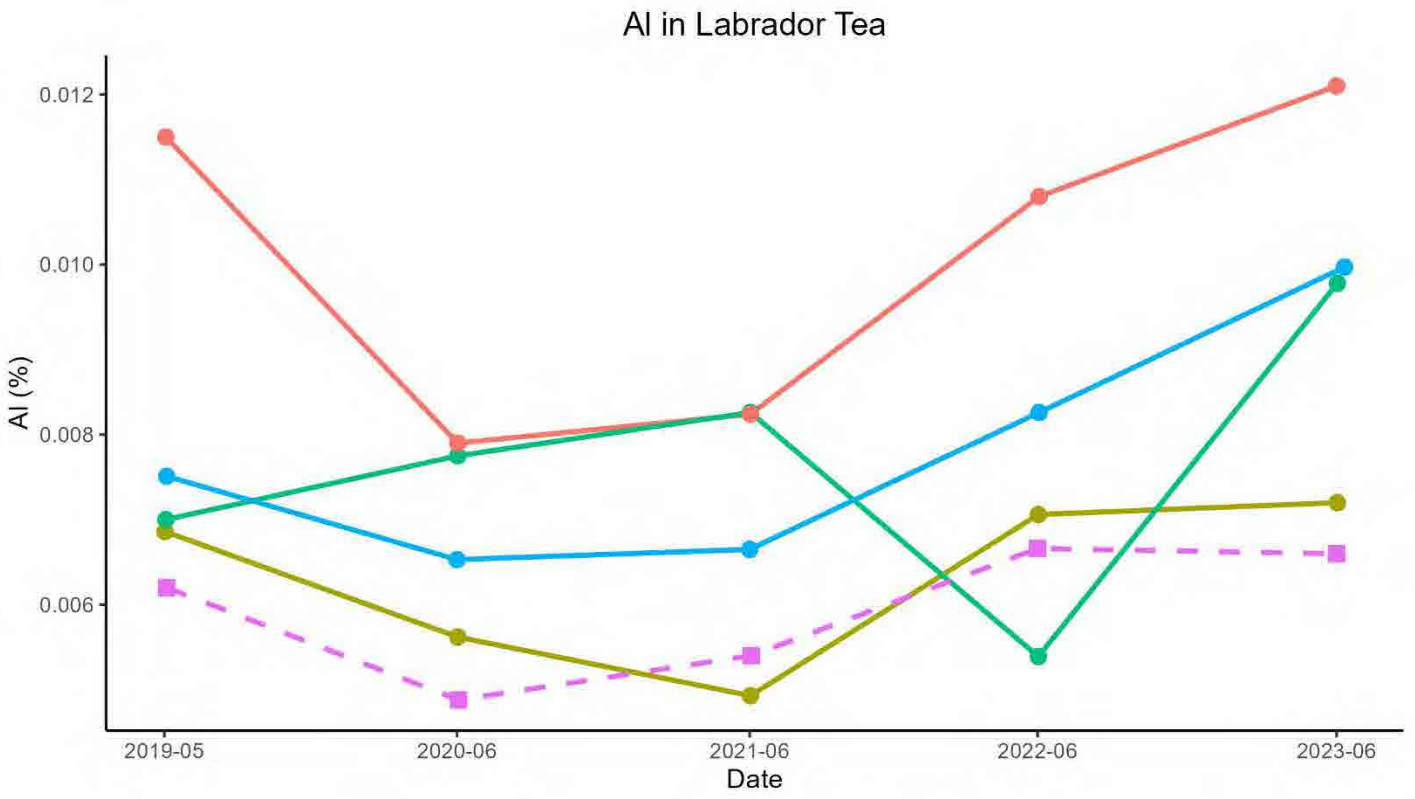
Figure E.1



Plot 4
Plot 109
Plot 114
Plot 11
Plot 71 - Control

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VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

Aluminum

Date:	Project:	Technical:	Reviewer:	Drawn:
October 17, 2023	15867-503	C. Ayer	L. Oiffer	J. Rich

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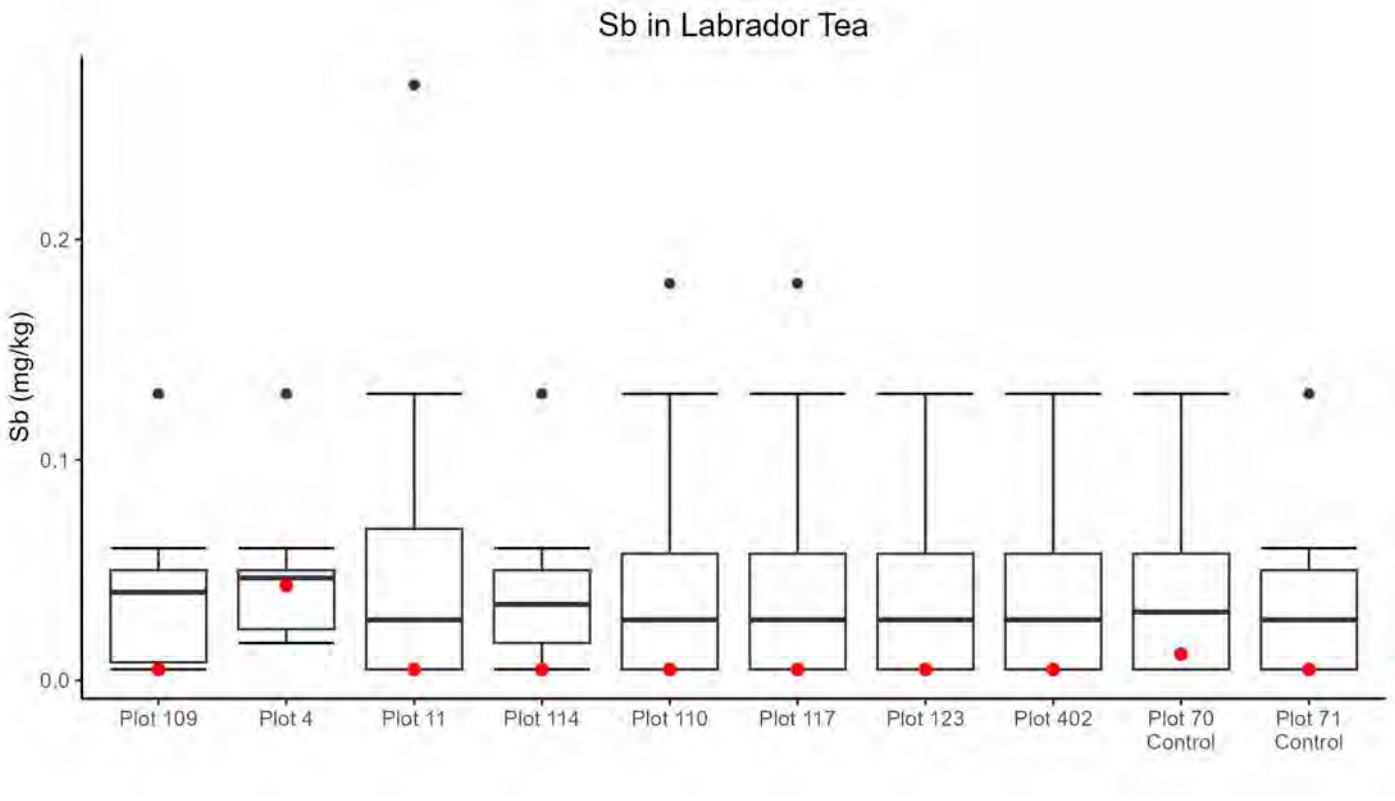
Figure E.2



Median

Interquartile Range (IQR) (25th to 75th percentile)

1.5×IQR boundary or most extreme data value

Outlier (Data point greater than 1.5×IQR)

2023 Sample

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Antimony

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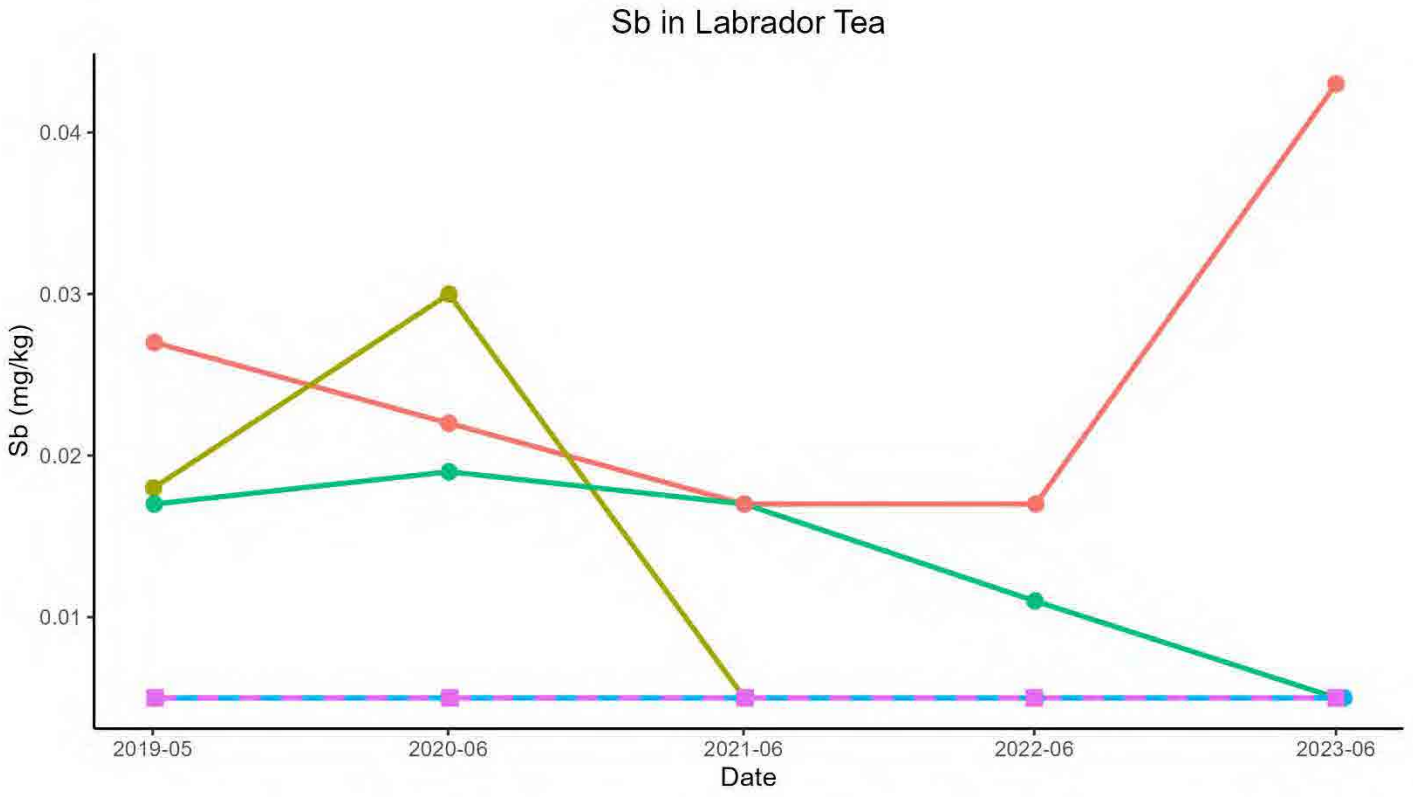
Figure **E.3**



- Plot 4
- Plot 109
- Plot 114
- Plot 11
- Plot 71 - Control

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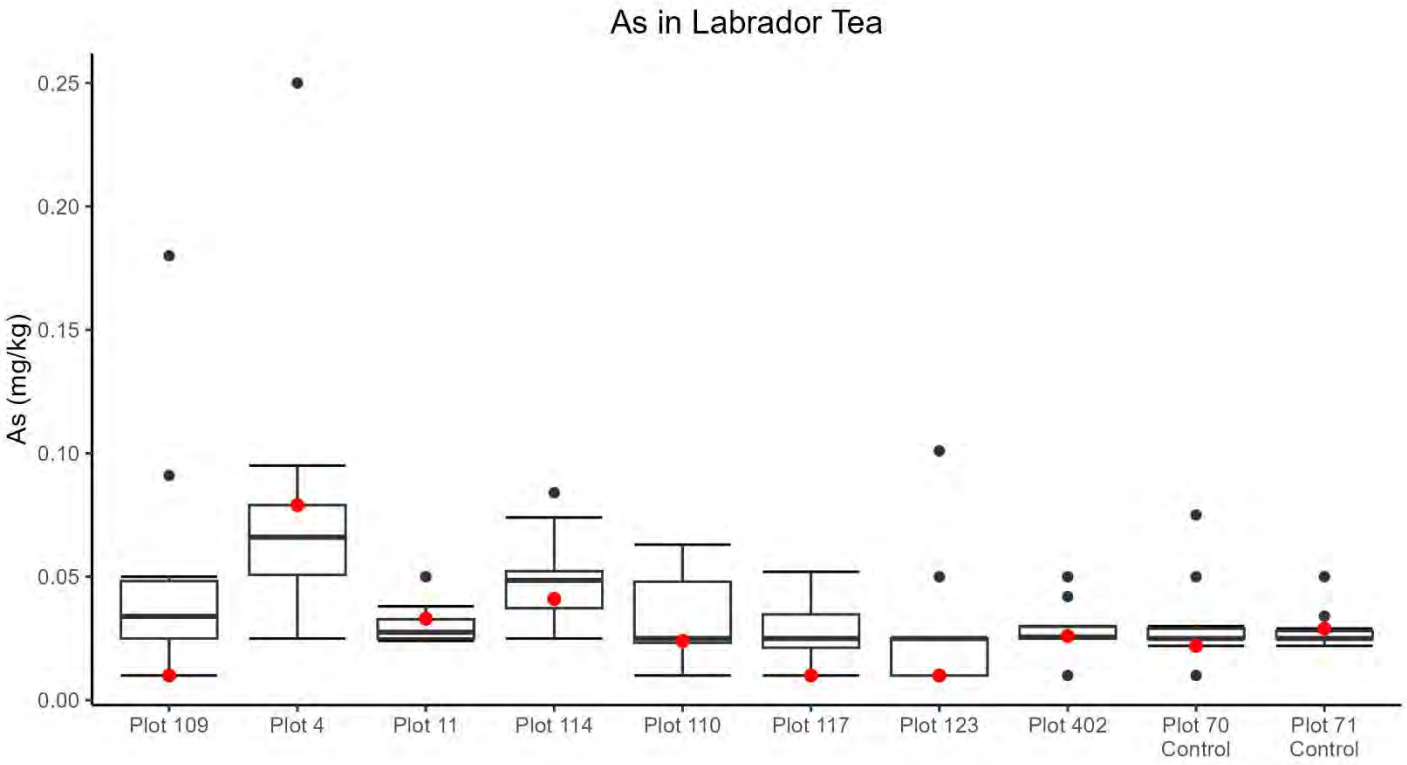
Figure E.4



Median

Interquartile Range (IQR) (25th to 75th percentile)

1.5×IQR boundary or most extreme data value

Outlier (Data point greater than 1.5×IQR)

2023 Sample

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Arsenic

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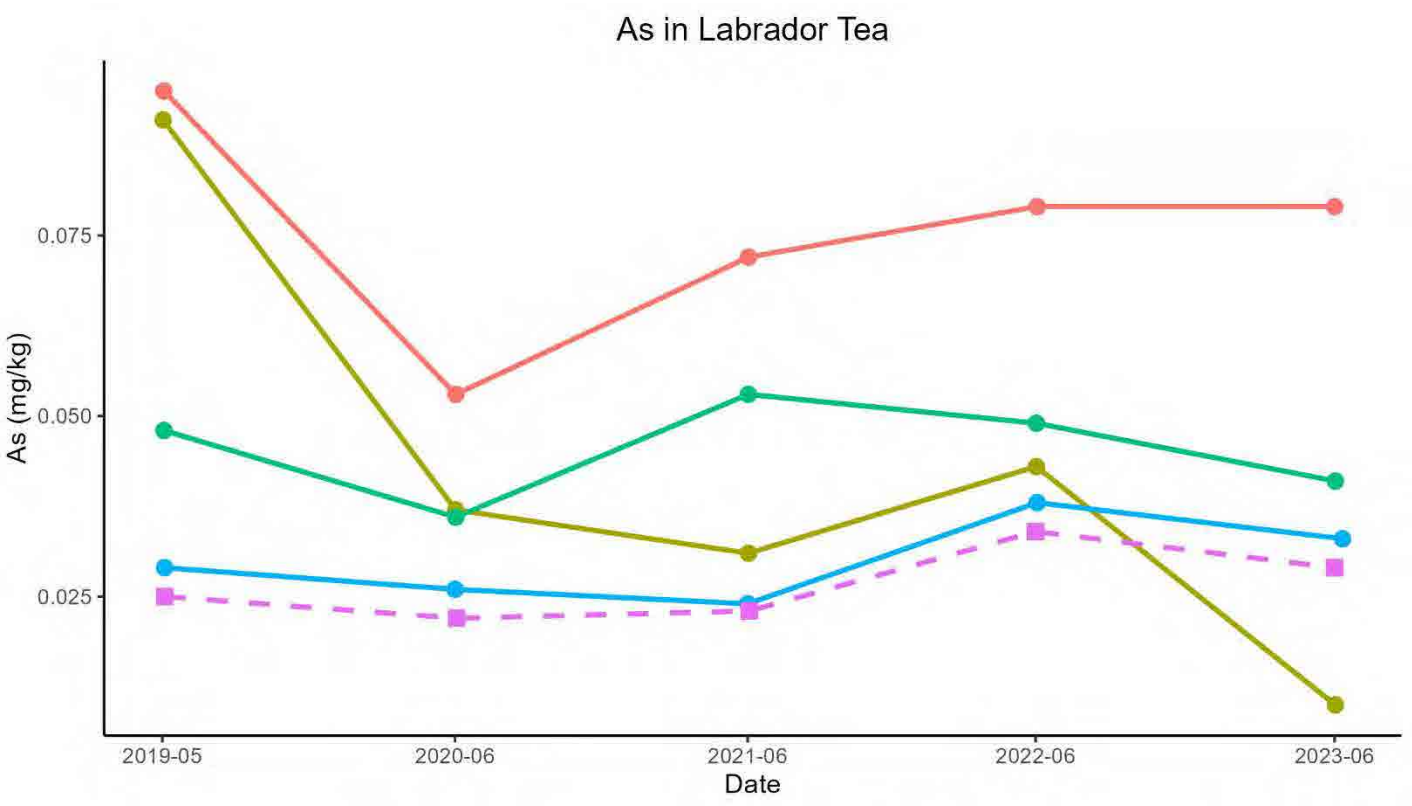
Figure E.5



Plot 4
Plot 109
Plot 114
Plot 11
Plot 71 - Control

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Arsenic

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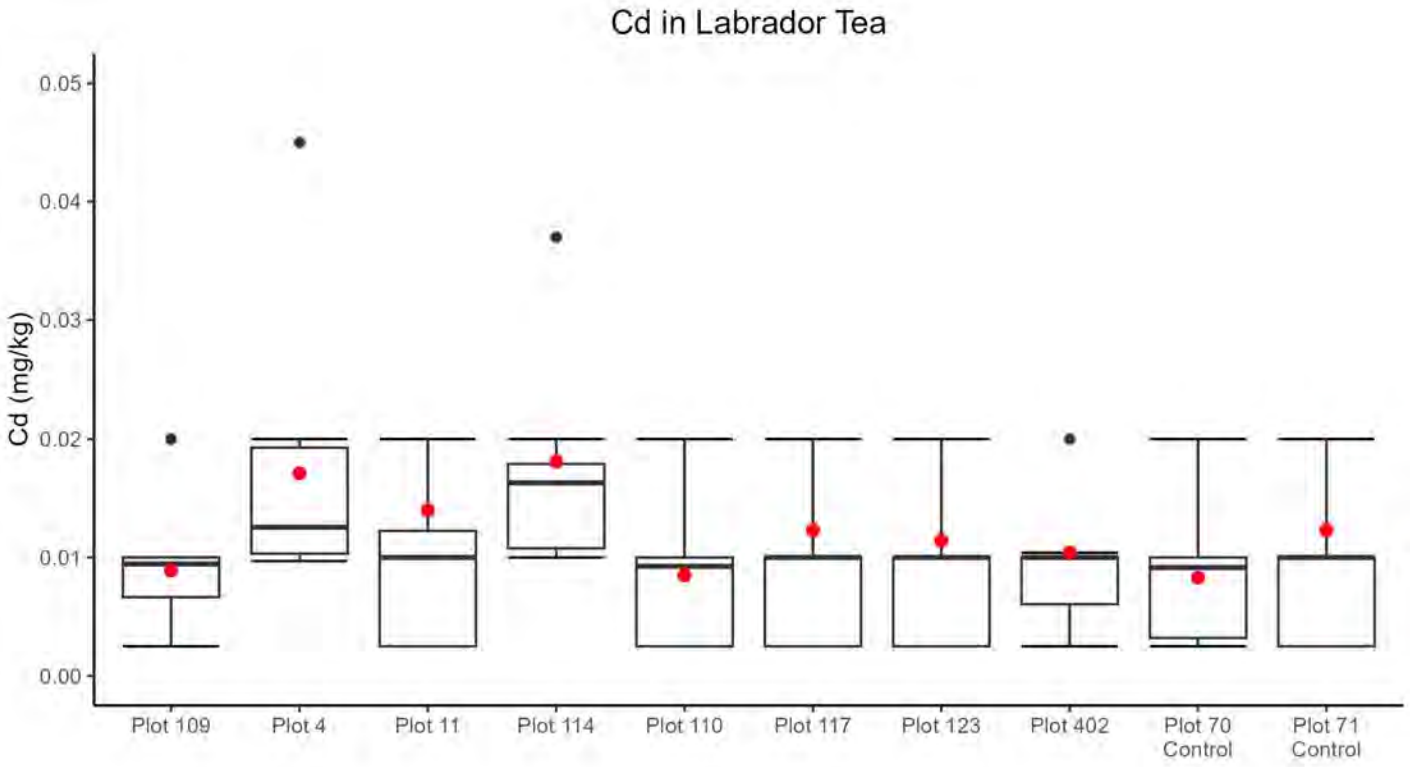
Figure **E.6**



- Median
- Interquartile Range (IQR) (25th to 75th percentile)
- 1.5×IQR boundary or most extreme data value
- Outlier (Data point greater than 1.5×IQR)
- 2023 Sample

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

Cadmium

Date:	Project:	Technical:	Reviewer:	Drawn:
October 17, 2023	15867-503	C. Ayer	L. Oiffer	J. Rich

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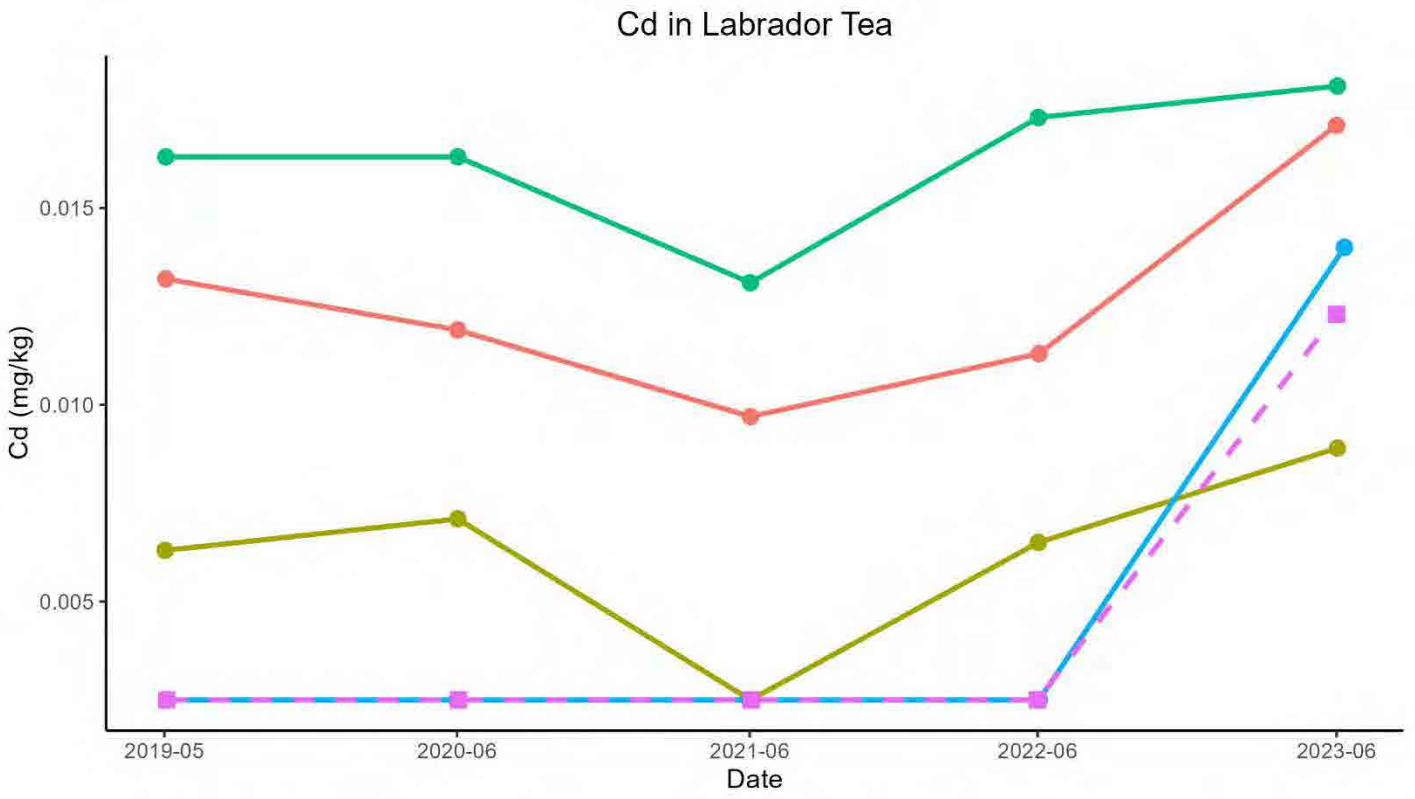
Figure E.7



Plot 4
Plot 109
Plot 114
Plot 11
Plot 71 - Control

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

Cadmium

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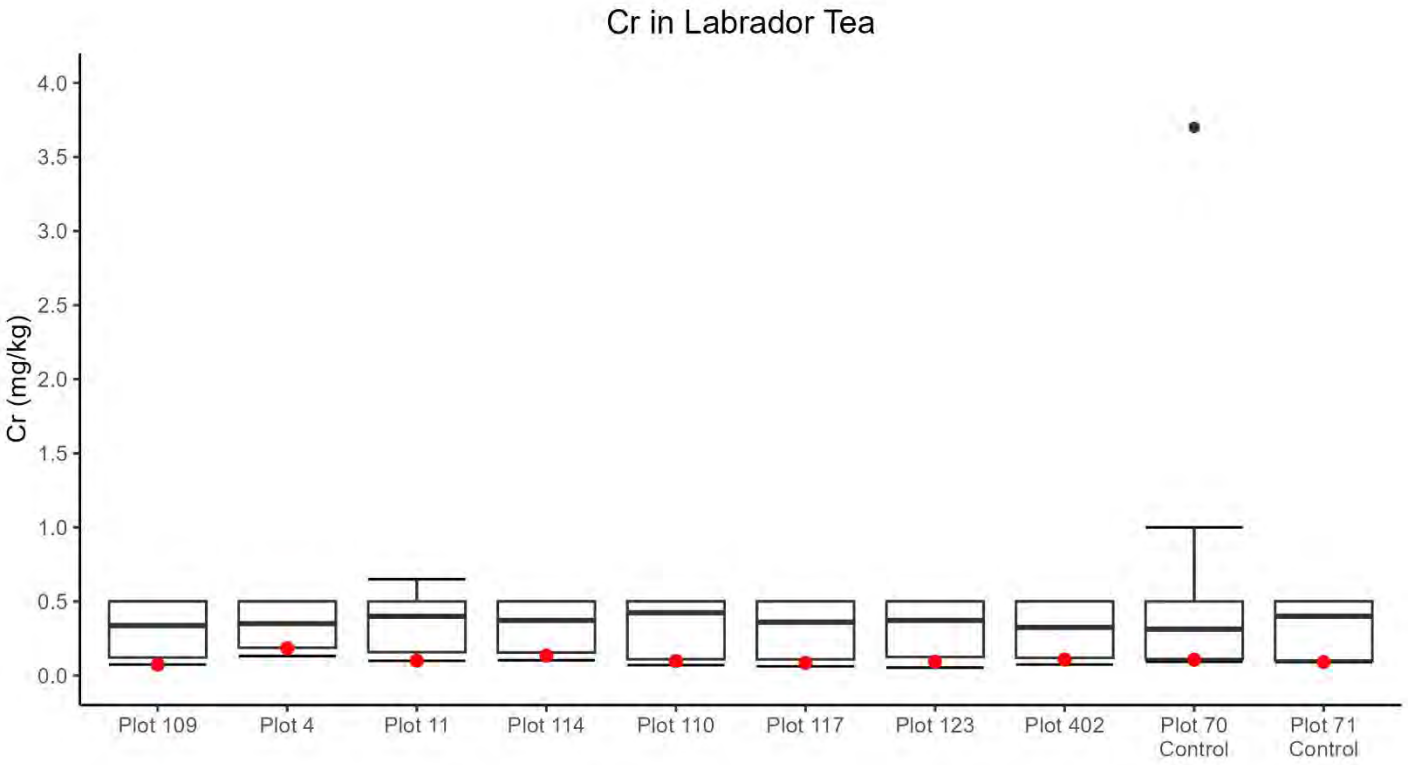
Figure **E.8**



Median

Interquartile Range (IQR) (25th to 75th percentile)

1.5×IQR boundary or most extreme data value

Outlier (Data point greater than 1.5×IQR)

2023 Sample

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

Chromium

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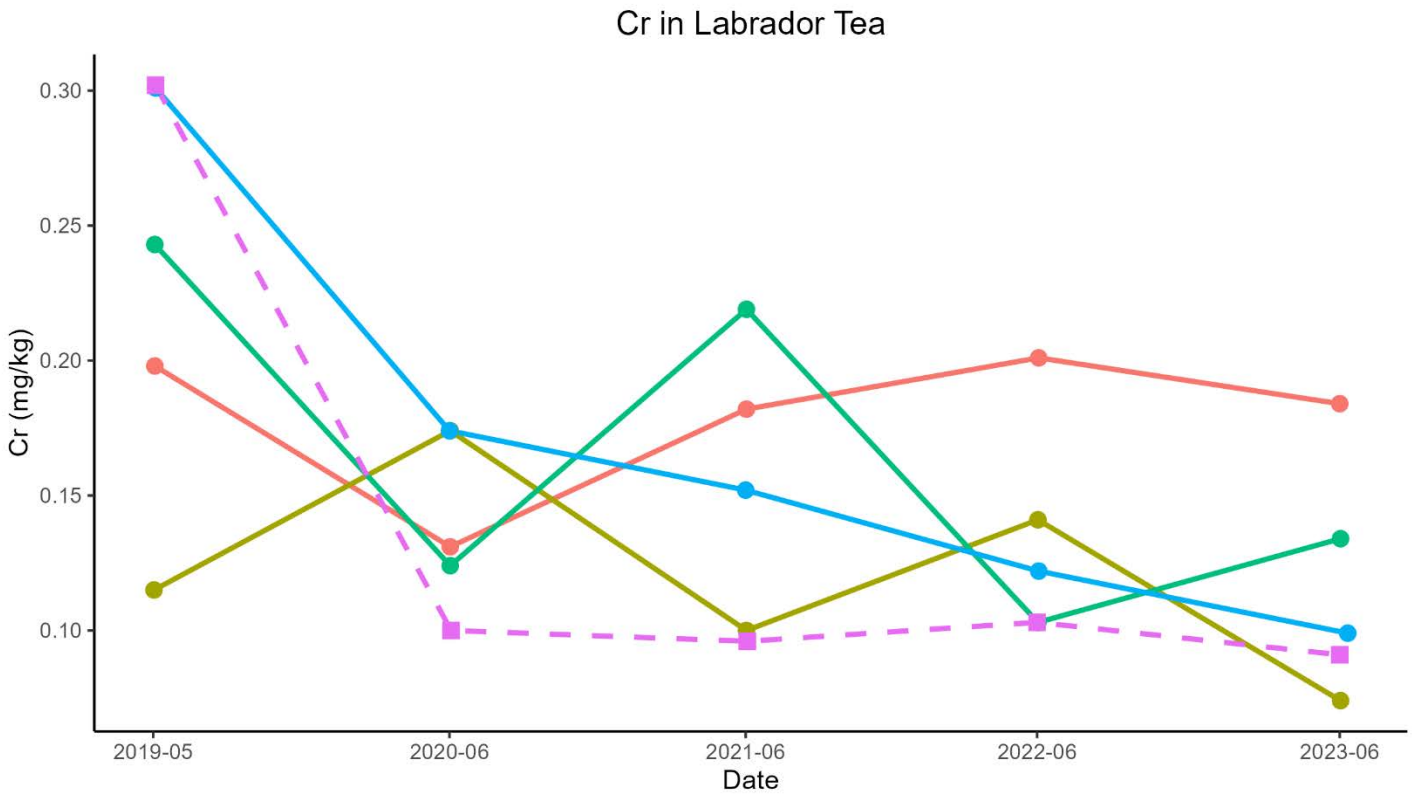
Figure E.9



Plot 4
Plot 109
Plot 114
Plot 11
Plot 71 - Control

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

Chromium

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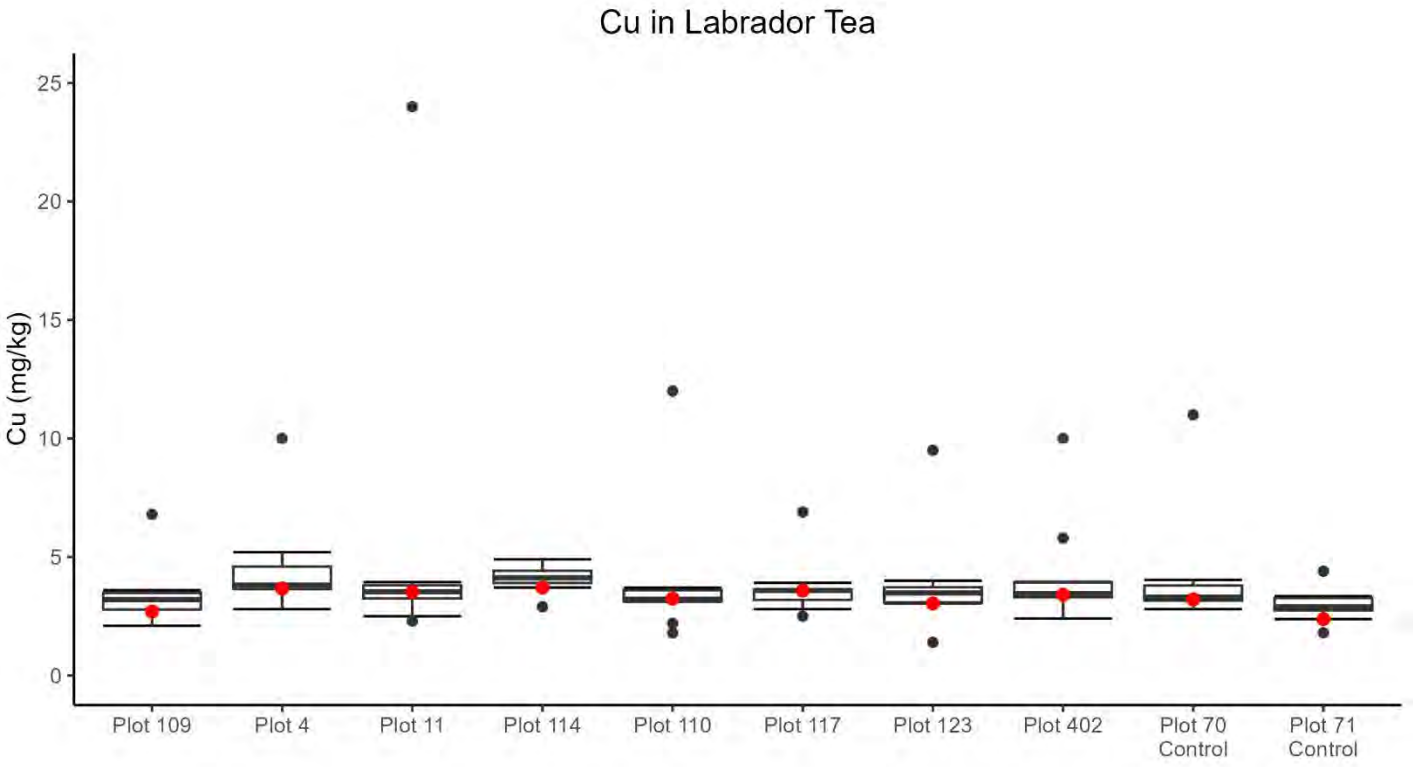
Figure E.10



- Median
- Interquartile Range (IQR) (25th to 75th percentile)
- 1.5×IQR boundary or most extreme data value
- Outlier (Data point greater than 1.5×IQR)
- 2023 Sample

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

Copper

Date:	Project:	Technical:	Reviewer:	Drawn:
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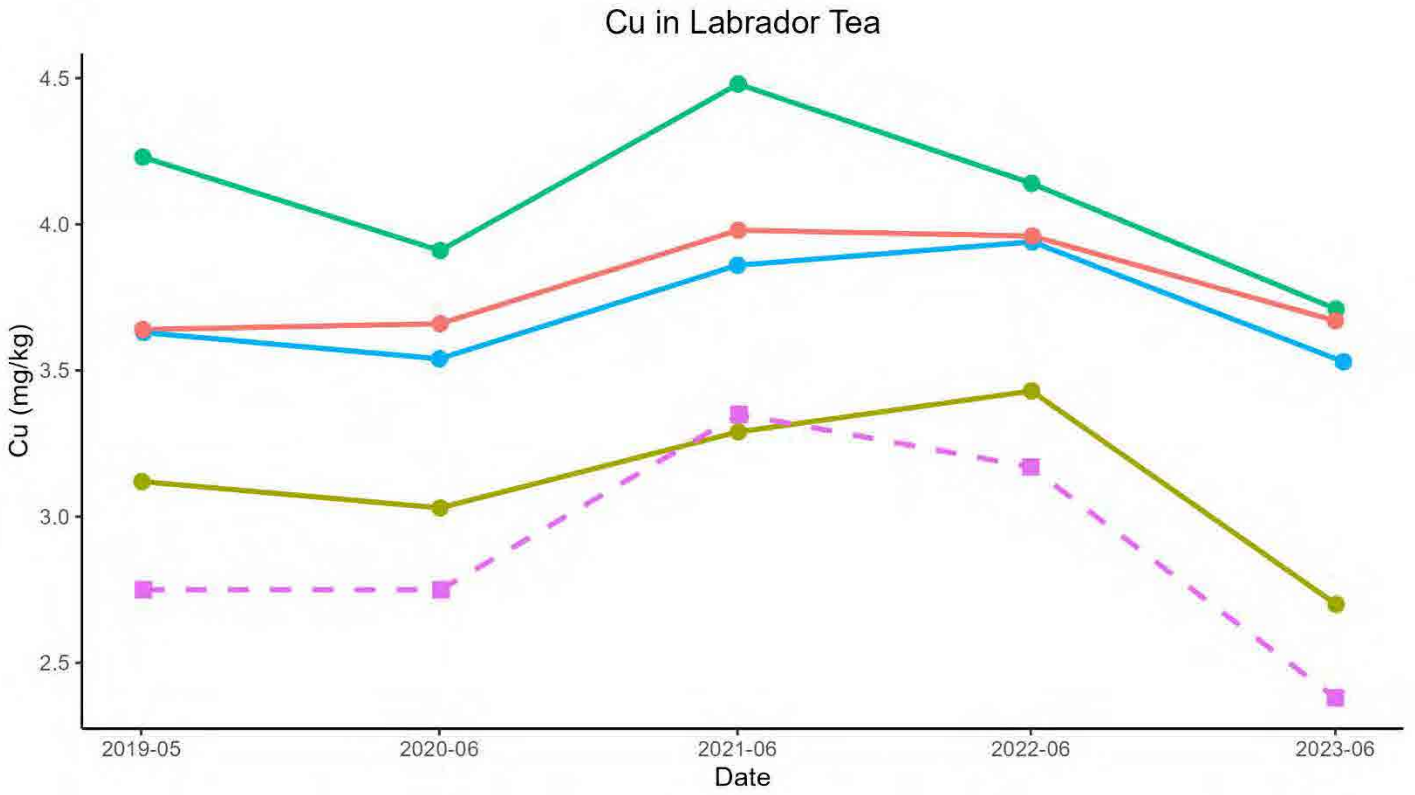
Figure E.11



Plot 4
Plot 109
Plot 114
Plot 11
Plot 71 - Control

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

Copper

Date:	Project:	Technical:	Reviewer:	Drawn:
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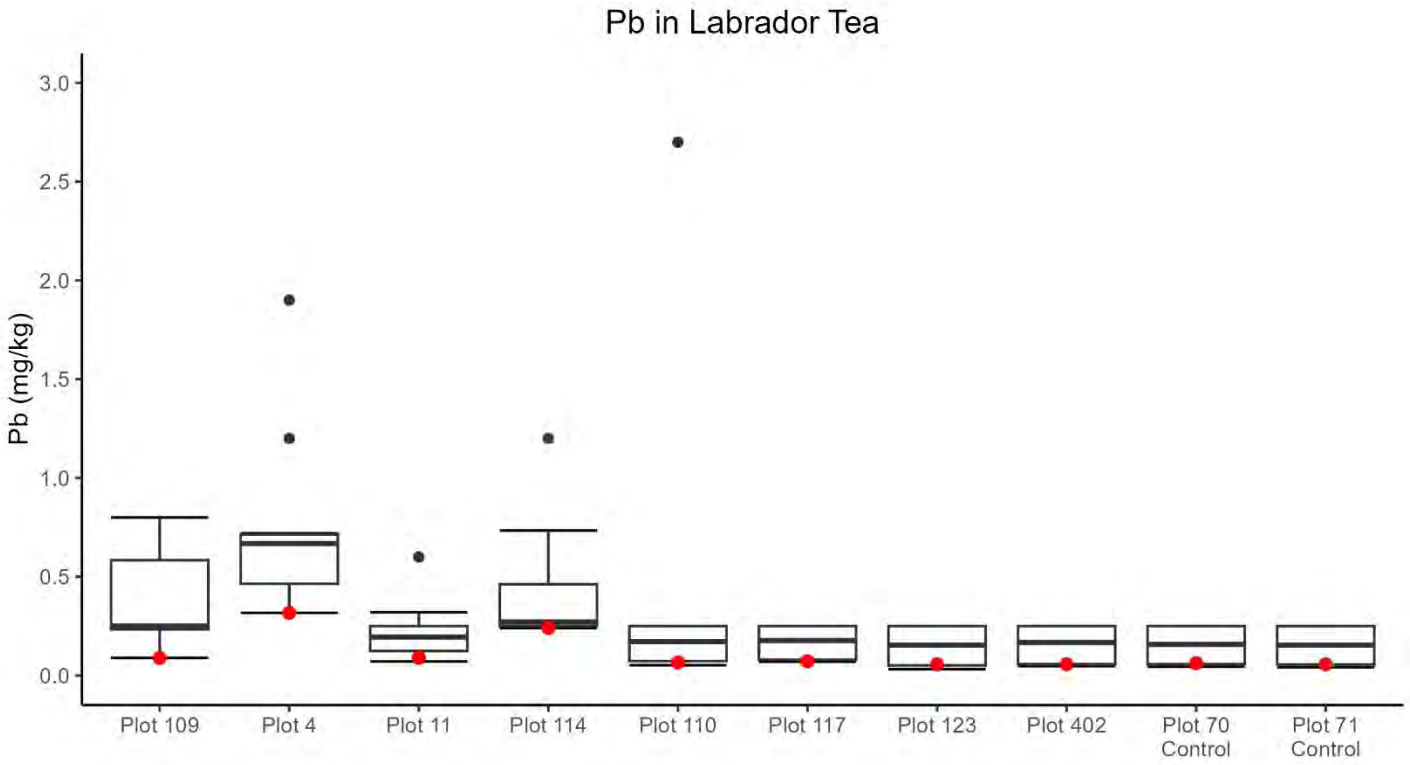
Figure **E.12**



- Median
- Interquartile Range (IQR) (25th to 75th percentile)
- 1.5×IQR boundary or most extreme data value
- Outlier (Data point greater than 1.5×IQR)
- 2023 Sample

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

Lead

Date:	Project:	Technical:	Reviewer:	Drawn:
October 17, 2023	15867-503	C. Ayer	L. Oiffer	J. Rich

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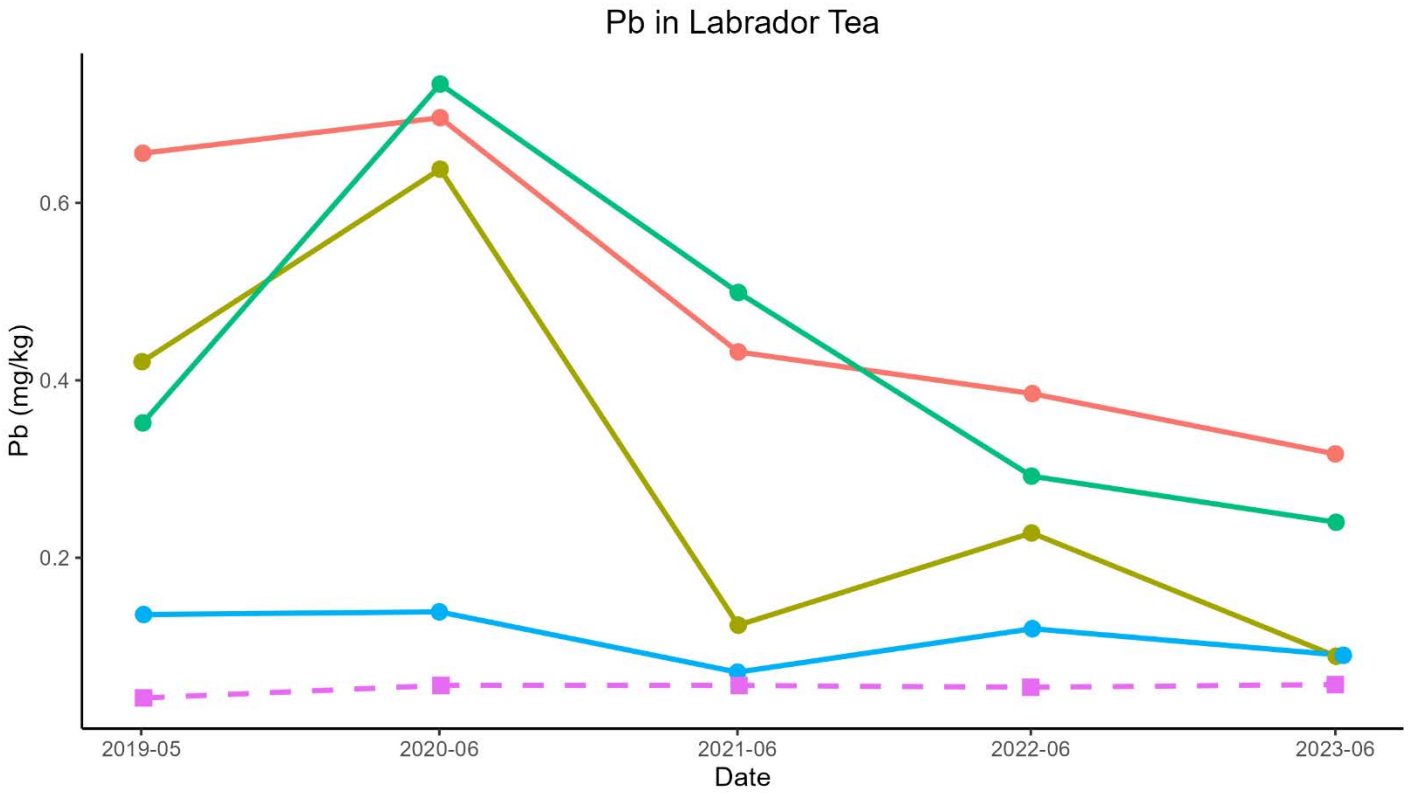
Figure E.13



Plot 4
Plot 109
Plot 114
Plot 11
Plot 71 - Control

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

Lead

Date:	Project:	Technical:	Reviewer:	Drawn:
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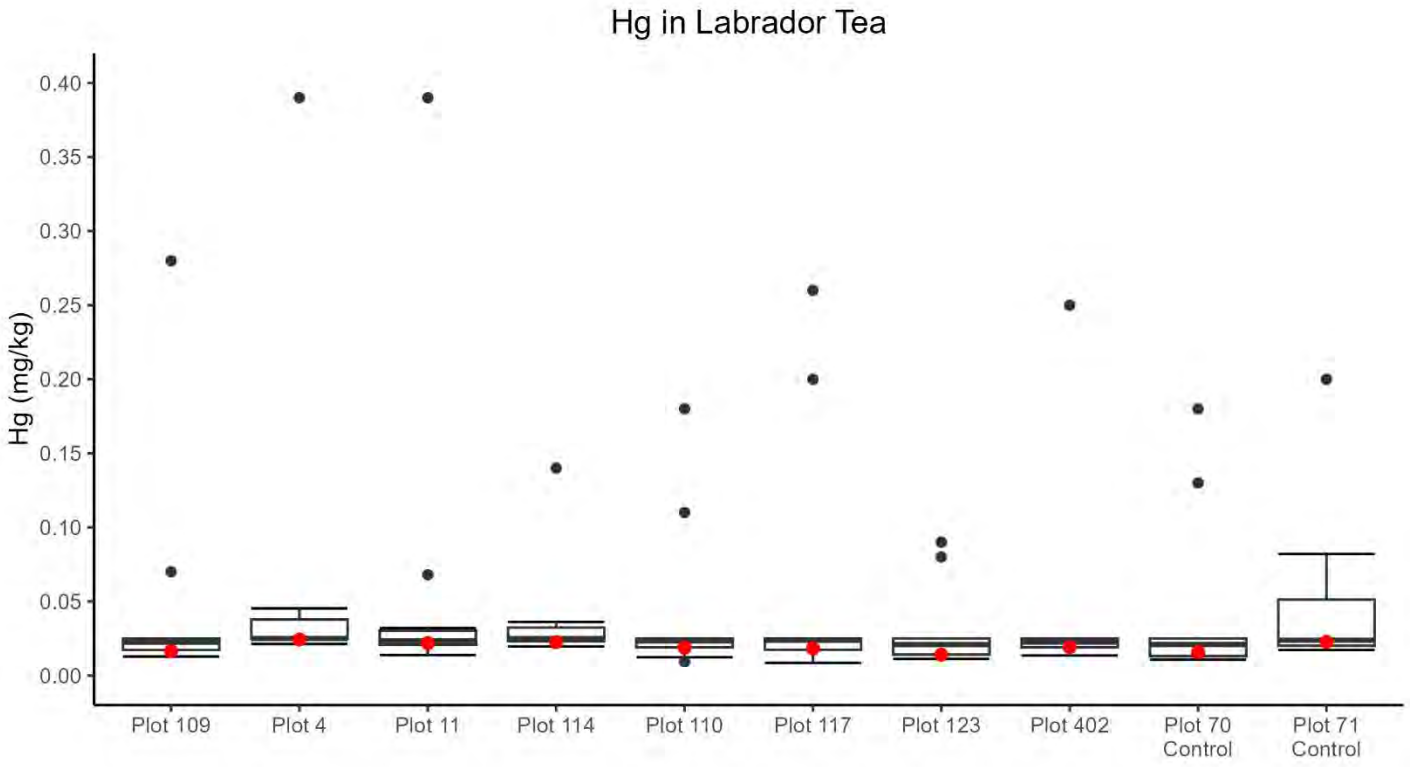
Figure **E.14**



- Median
- Interquartile Range (IQR) (25th to 75th percentile)
- 1.5×IQR boundary or most extreme data value
- Outlier (Data point greater than 1.5×IQR)
- 2023 Sample

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

Mercury

Date:	Project:	Technical:	Reviewer:	Drawn:
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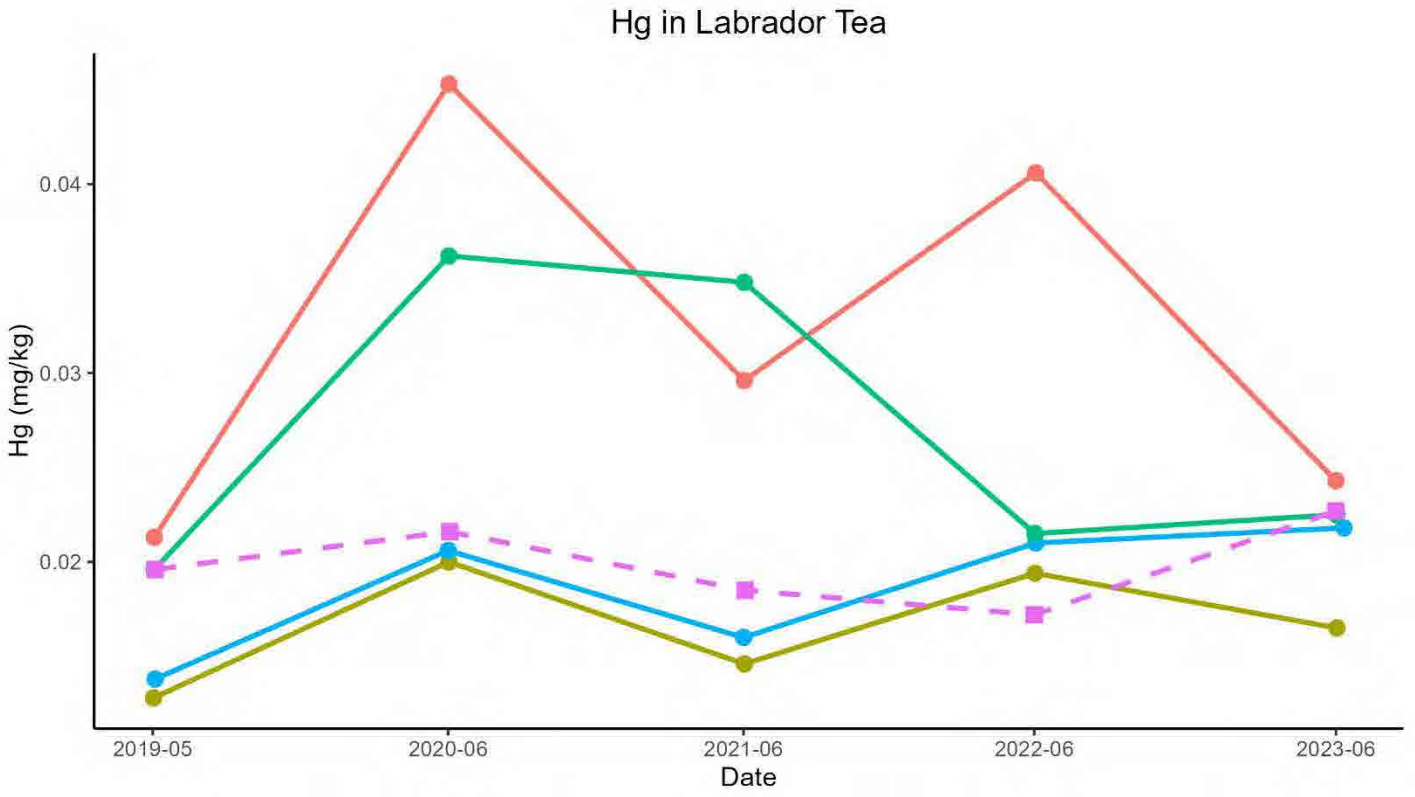
Figure **E.15**



Plot 4
Plot 109
Plot 114
Plot 11
Plot 71 - Control

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

Mercury

Date:	Project:	Technical:	Reviewer:	Drawn:
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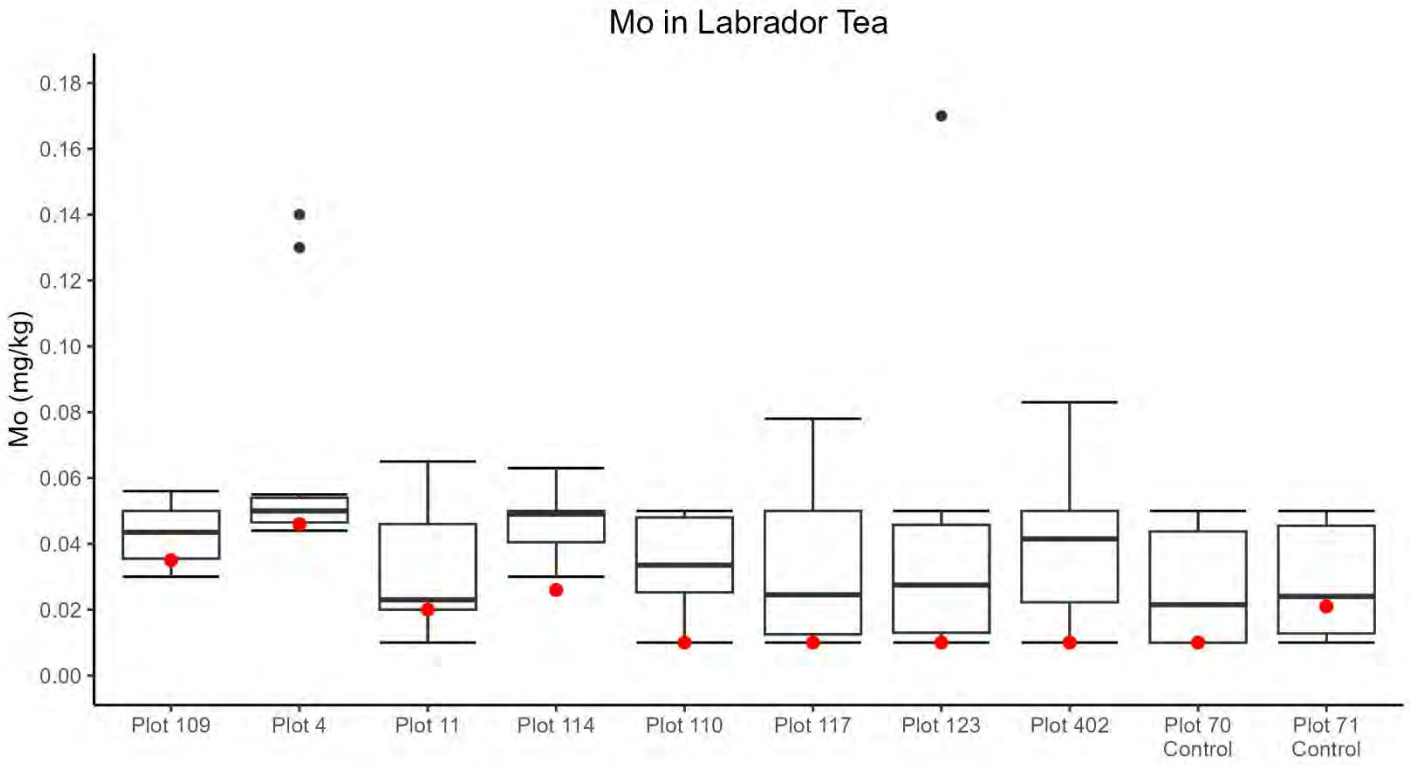
Figure **E.16**



- Median
- Interquartile Range (IQR) (25th to 75th percentile)
- 1.5×IQR boundary or most extreme data value
- Outlier (Data point greater than 1.5×IQR)
- 2023 Sample

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

Molybdenum

Date:	Project:	Technical:	Reviewer:	Drawn:
October 17, 2023	15867-503	C. Ayer	L. Oiffer	J. Rich

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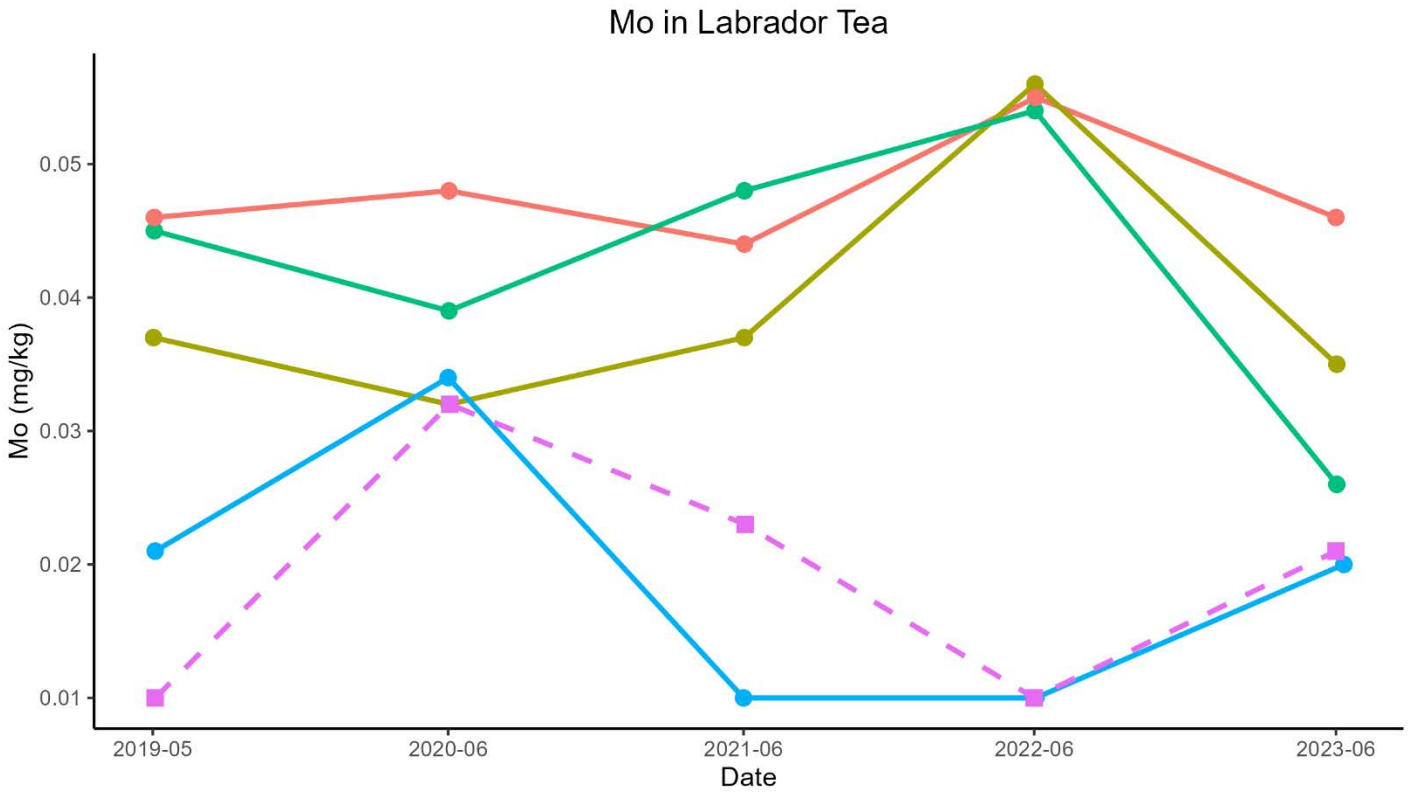
Figure E.17



Plot 4
Plot 109
Plot 114
Plot 11
Plot 71 - Control

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

Molybdenum

Date:	Project:	Technical:	Reviewer:	Drawn:
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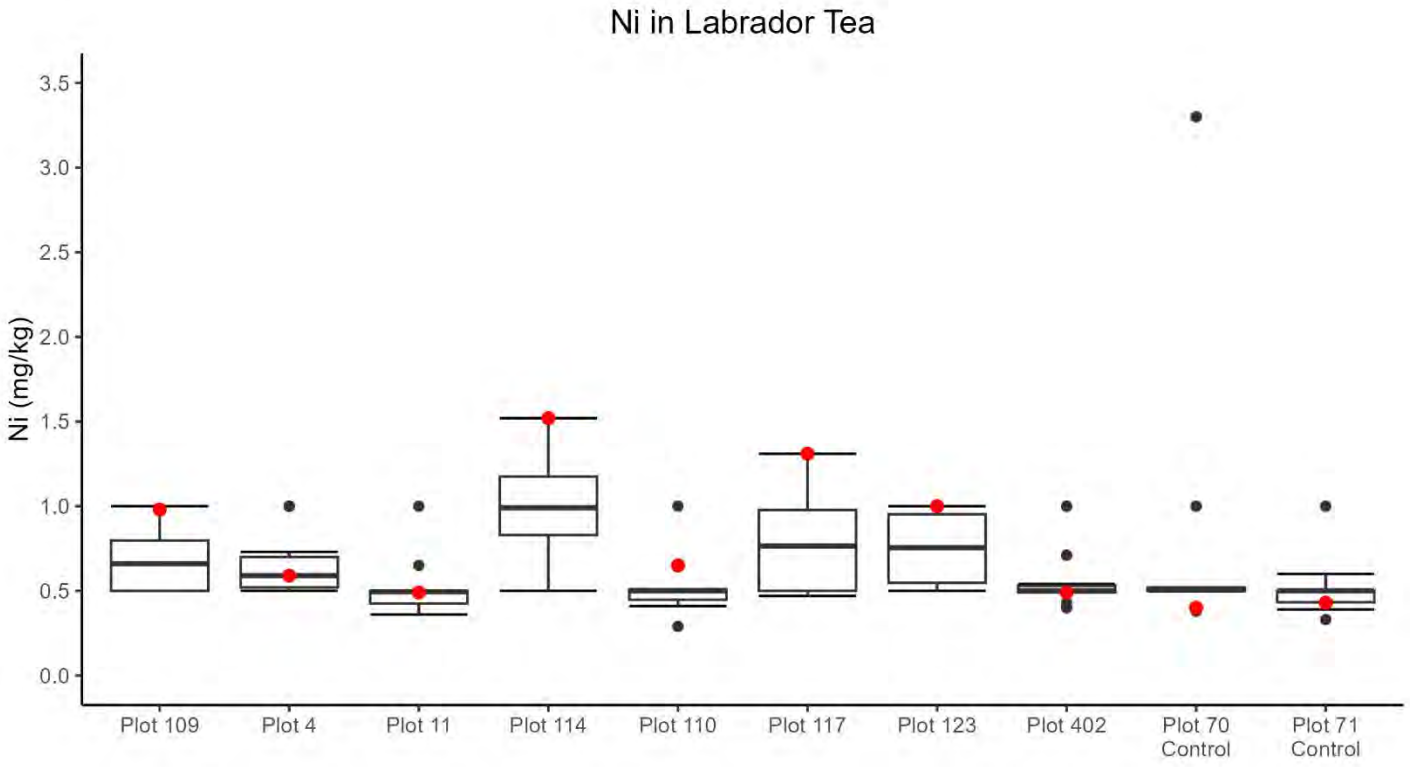
Figure **E.18**



Median

Interquartile Range (IQR) (25th to 75th percentile)

1.5×IQR boundary or most extreme data value

Outlier (Data point greater than 1.5×IQR)

2023 Sample

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

Nickel

Date:	Project:	Technical:	Reviewer:	Drawn:
October 17, 2023	15867-503	C. Ayer	L. Oiffer	J. Rich

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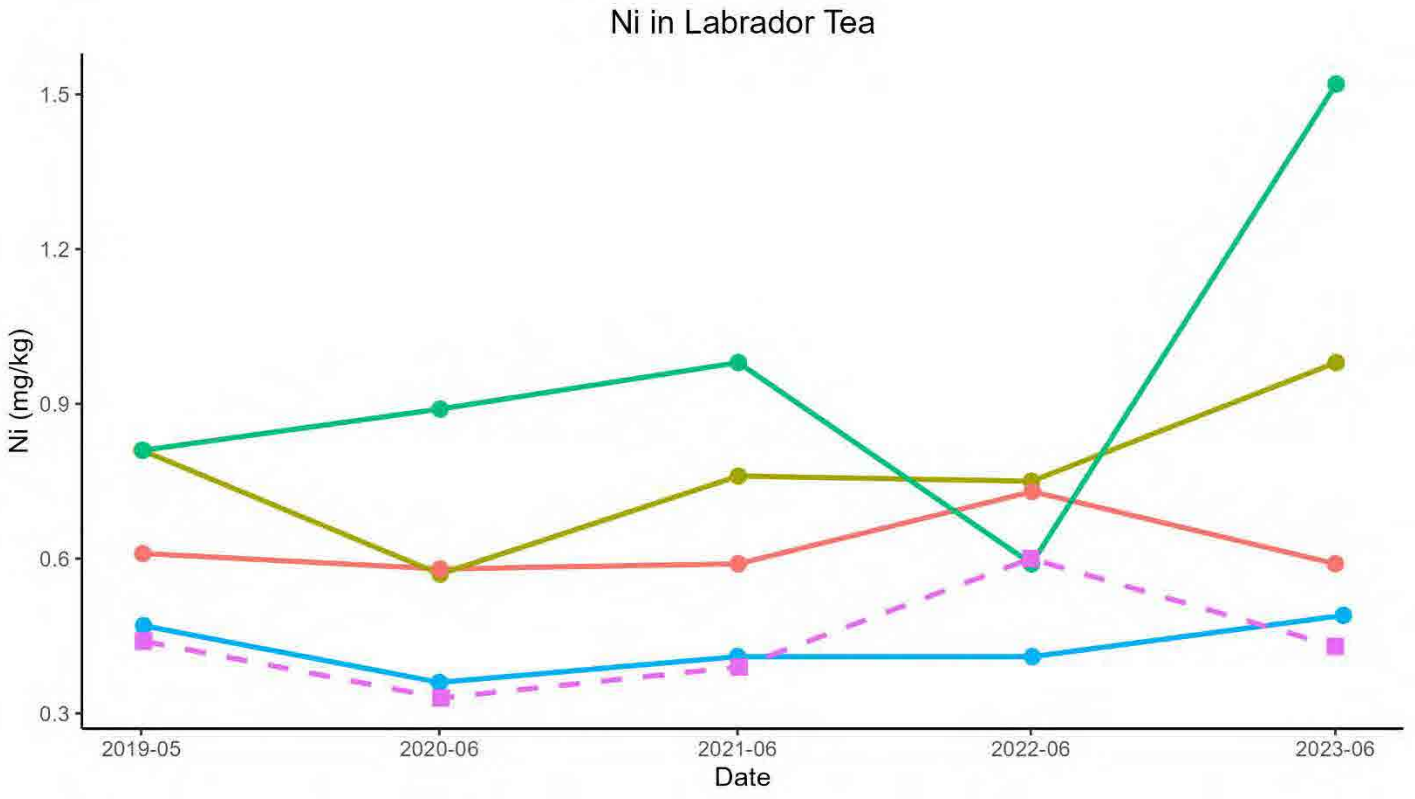
Figure E.19



Plot 4
Plot 109
Plot 114
Plot 11
Plot 71 - Control

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

Nickel

Date:	Project:	Technical:	Reviewer:	Drawn:
October 17, 2023	15867-503	C. Ayer	L. Oiffer	J. Rich

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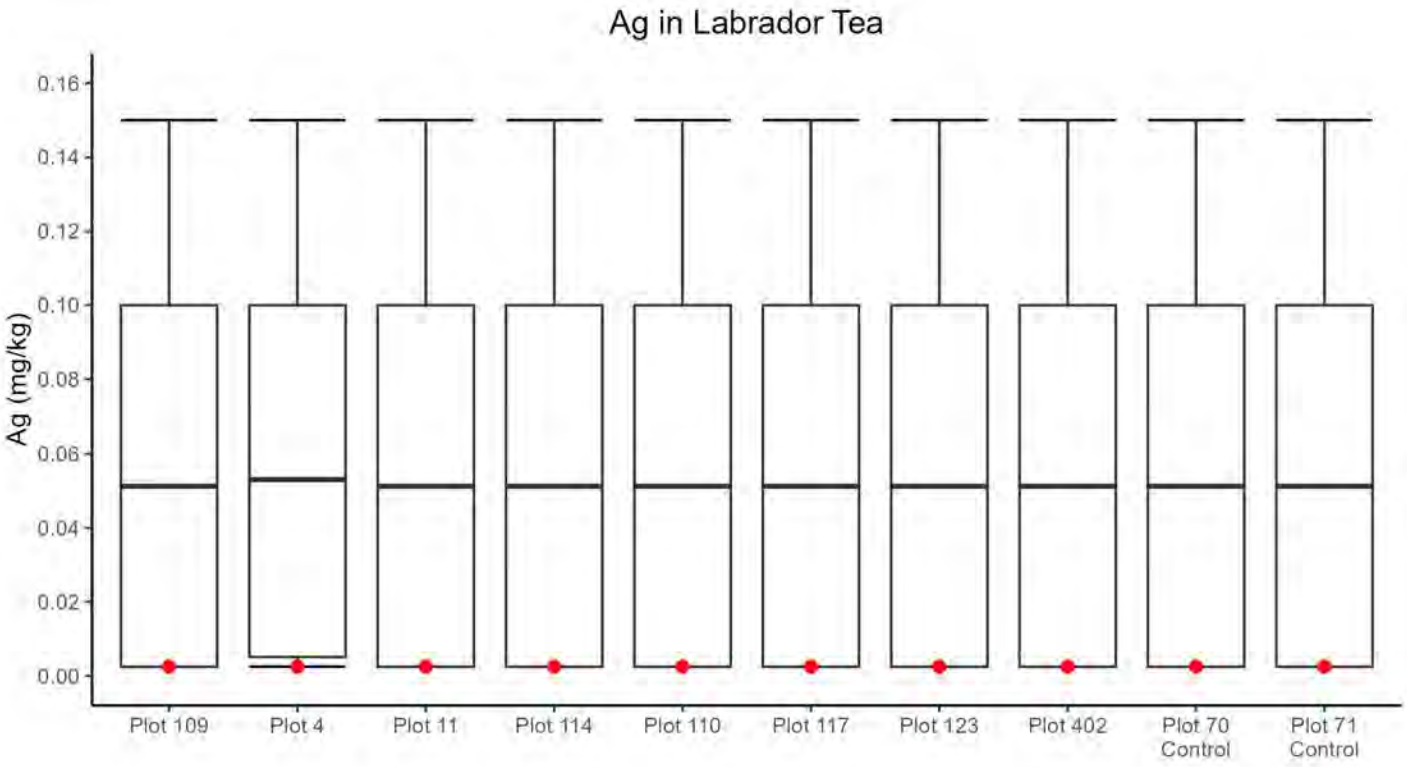
Figure E.20



Median

Interquartile Range (IQR) (25th to 75th percentile)

1.5×IQR boundary or most extreme data value

Outlier (Data point greater than 1.5×IQR)

2023 Sample

Silver has been ND historically the median, upper quartile and tail represent years when detection limit was elevated

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

Silver

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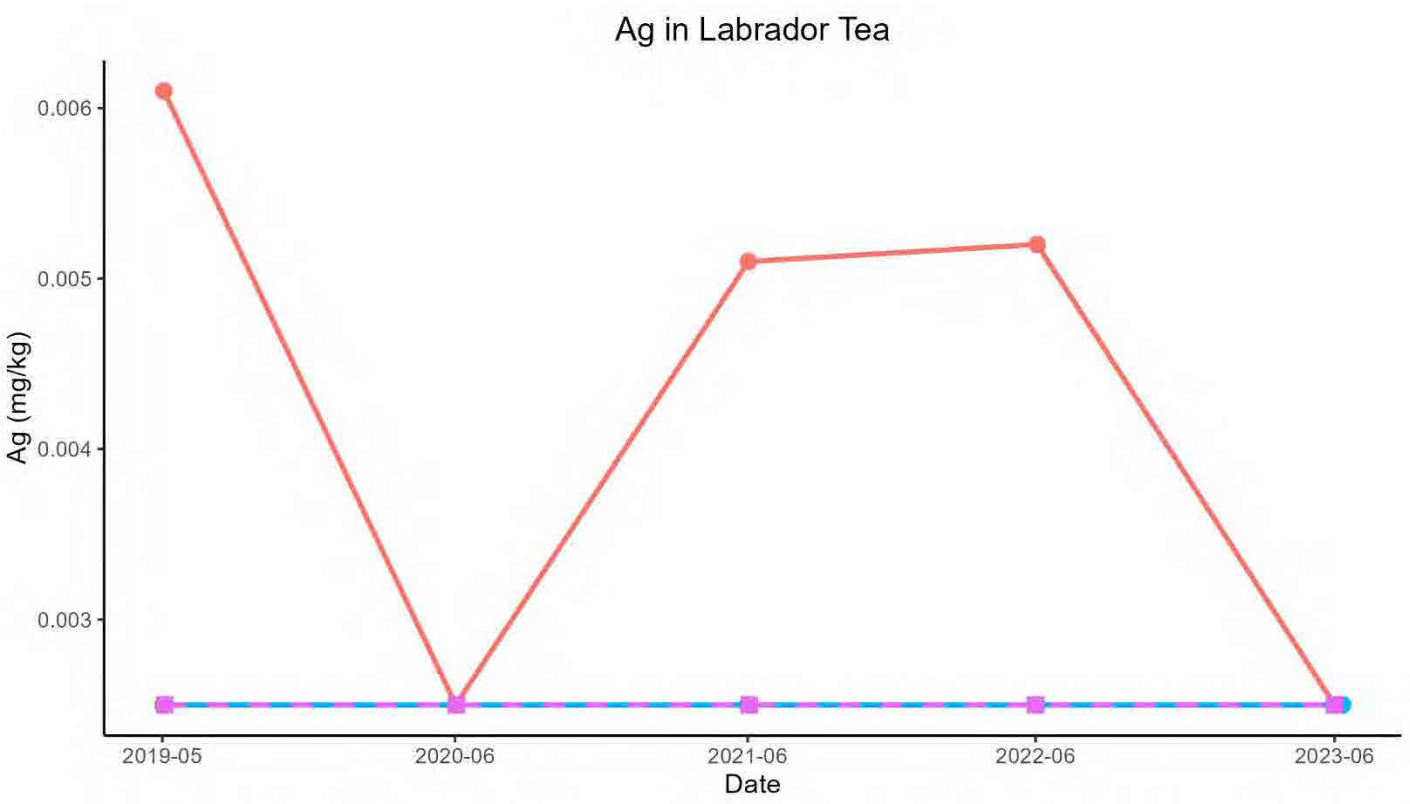
Figure E.21



Plot 4
Plot 109
Plot 114
Plot 11
Plot 71 - Control

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

Silver

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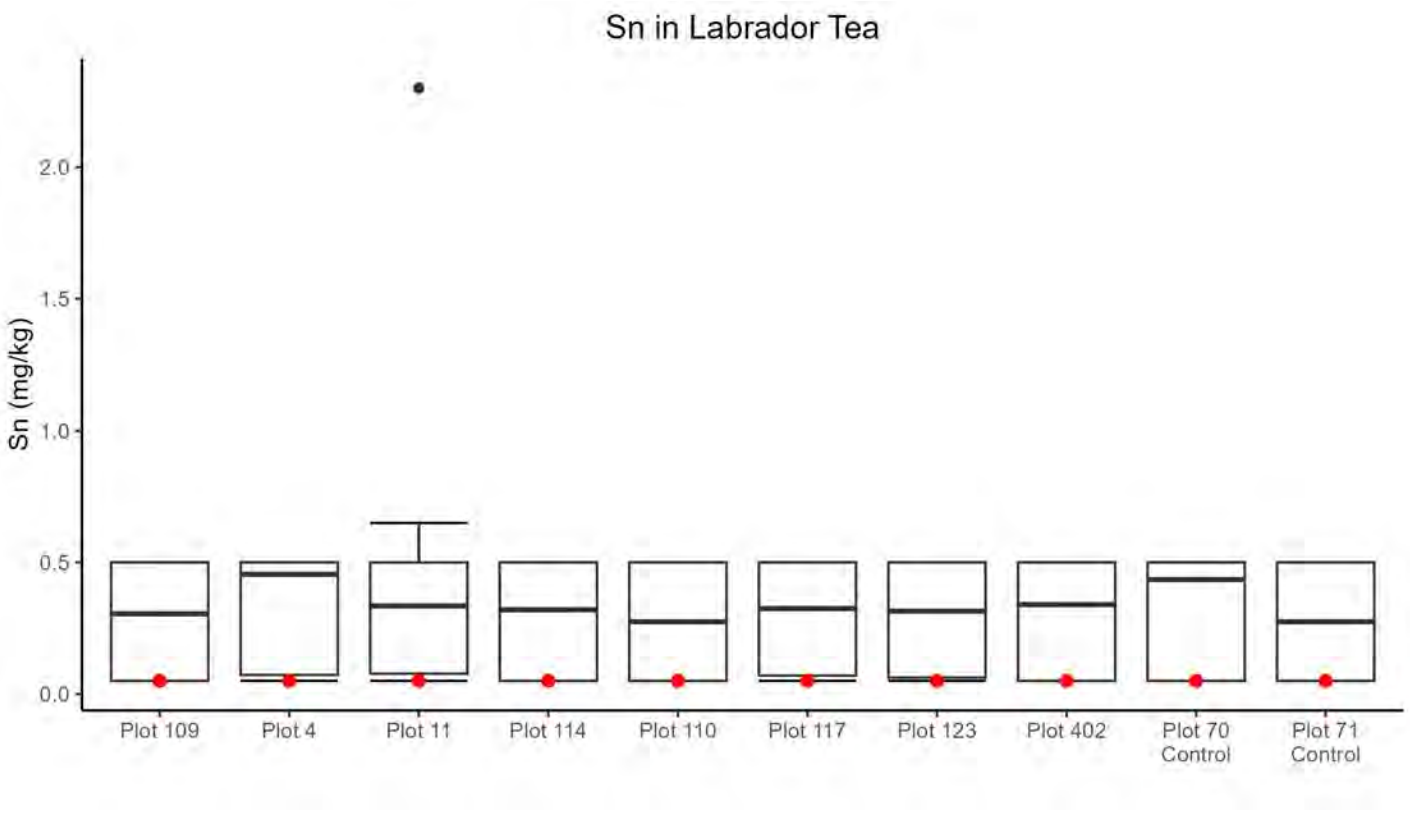
Figure **E.22**



- Median
- Interquartile Range (IQR) (25th to 75th percentile)
- 1.5×IQR boundary or most extreme data value
- Outlier (Data point greater than 1.5×IQR)
- 2023 Sample

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

Tin

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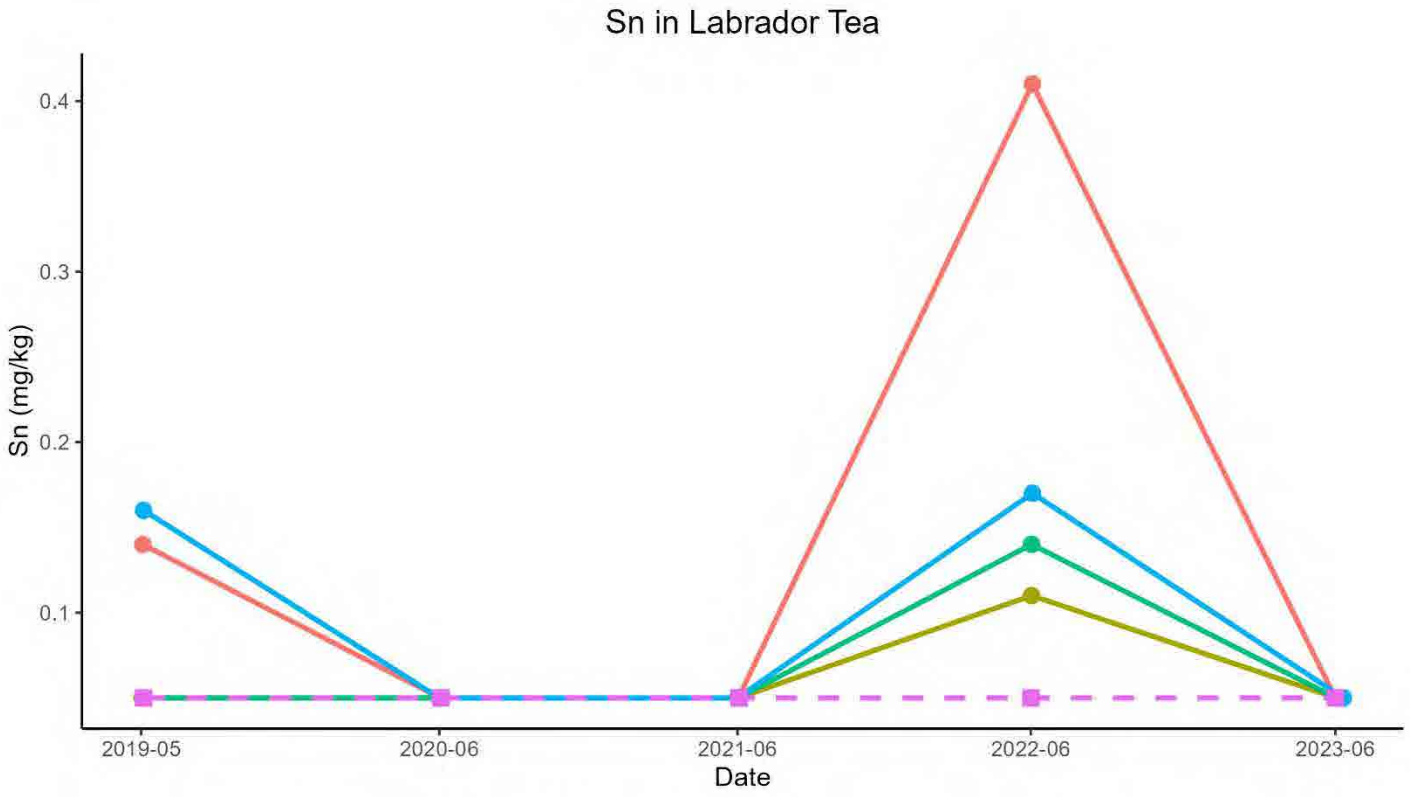
Figure E.23



- Plot 4
- Plot 109
- Plot 114
- Plot 11
- Plot 71 - Control

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

Tin

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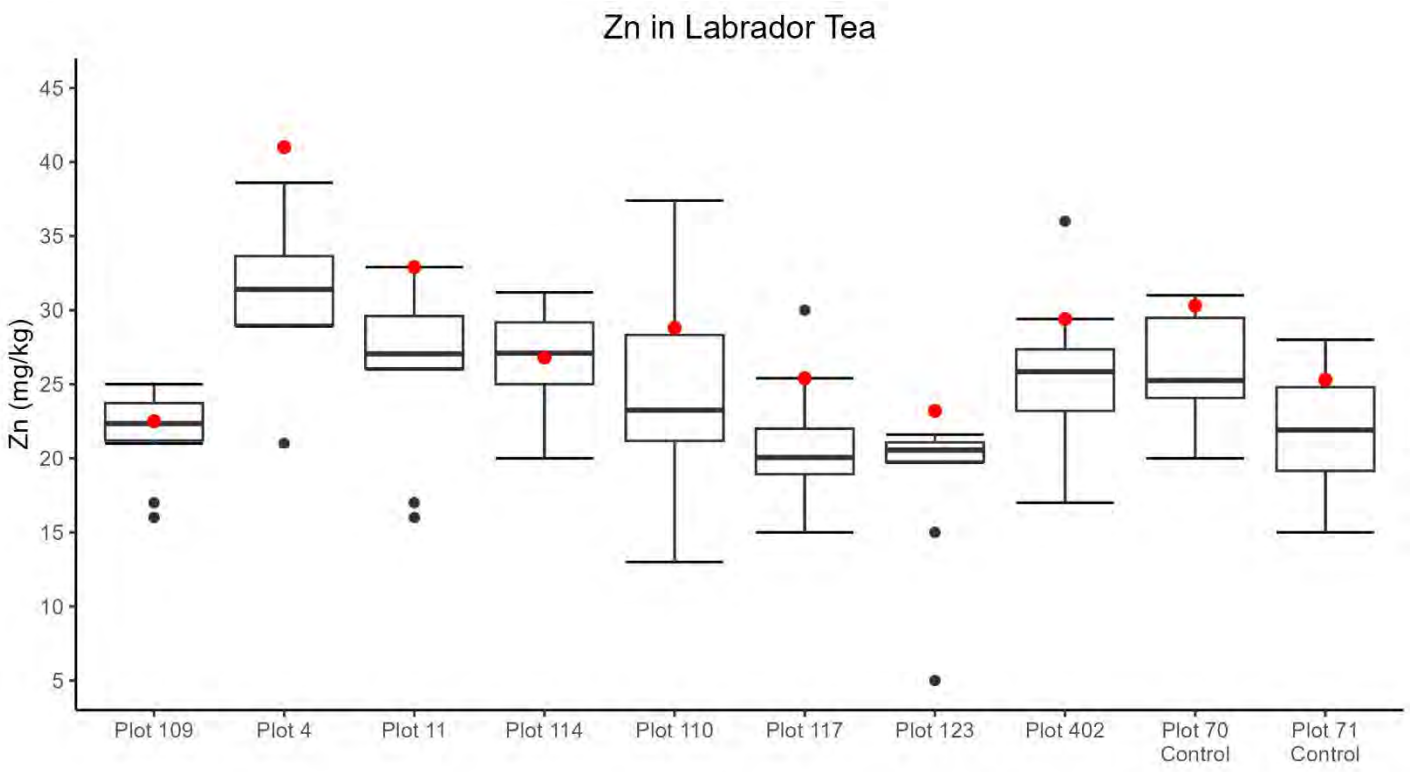
Figure E.24



- Median
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- 1.5×IQR boundary or most extreme data value
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- 2023 Sample

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

Zinc

Date:	Project:	Technical:	Reviewer:	Drawn:
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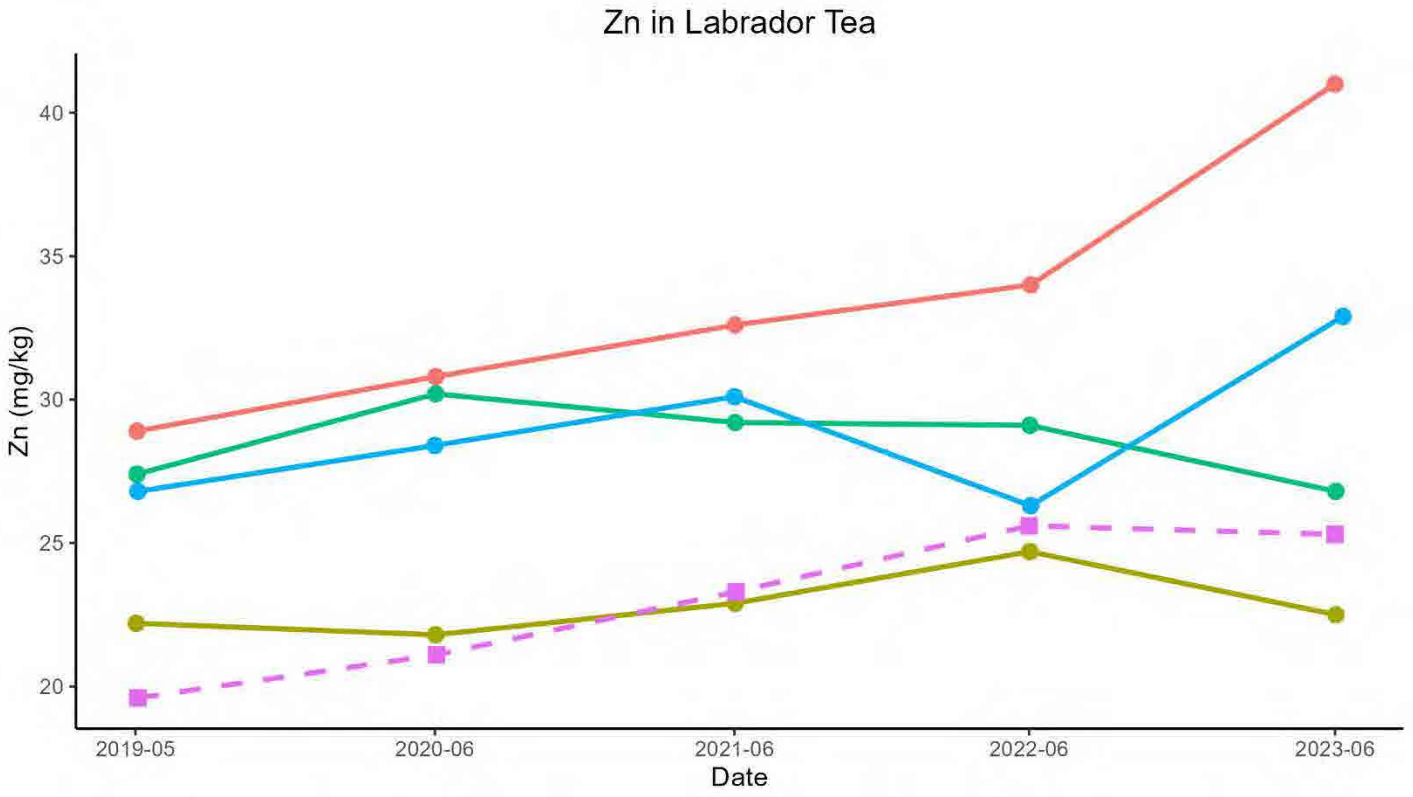
Figure E.25



Plot 4
Plot 109
Plot 114
Plot 11
Plot 71 - Control

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

Zinc

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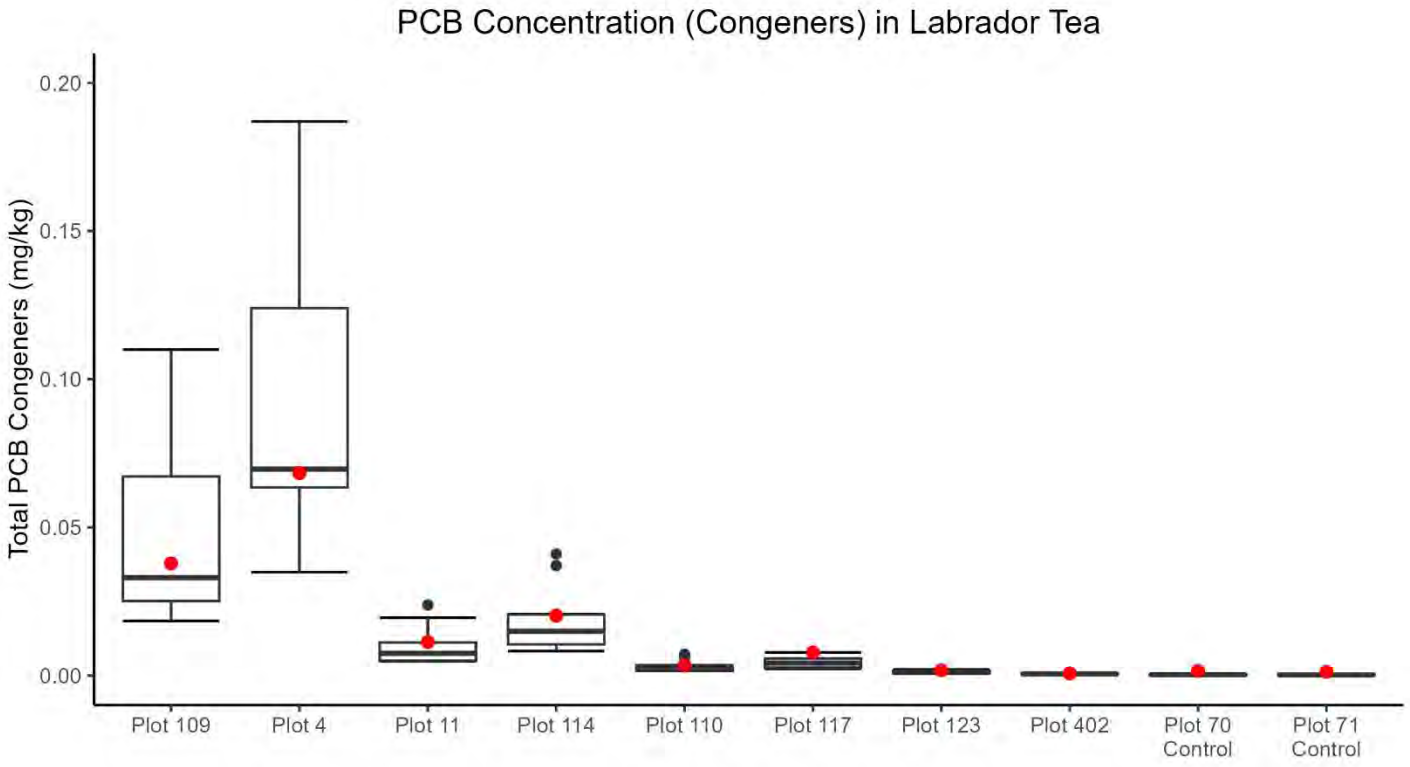
Figure E.26



Median

Interquartile Range (IQR) (25th to 75th percentile)

1.5×IQR boundary or most extreme data value

Outlier (Data point greater than 1.5×IQR)

2023 Sample

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

PCB Concentration (Congeners)

Date:	Project:	Technical:	Reviewer:	Drawn:
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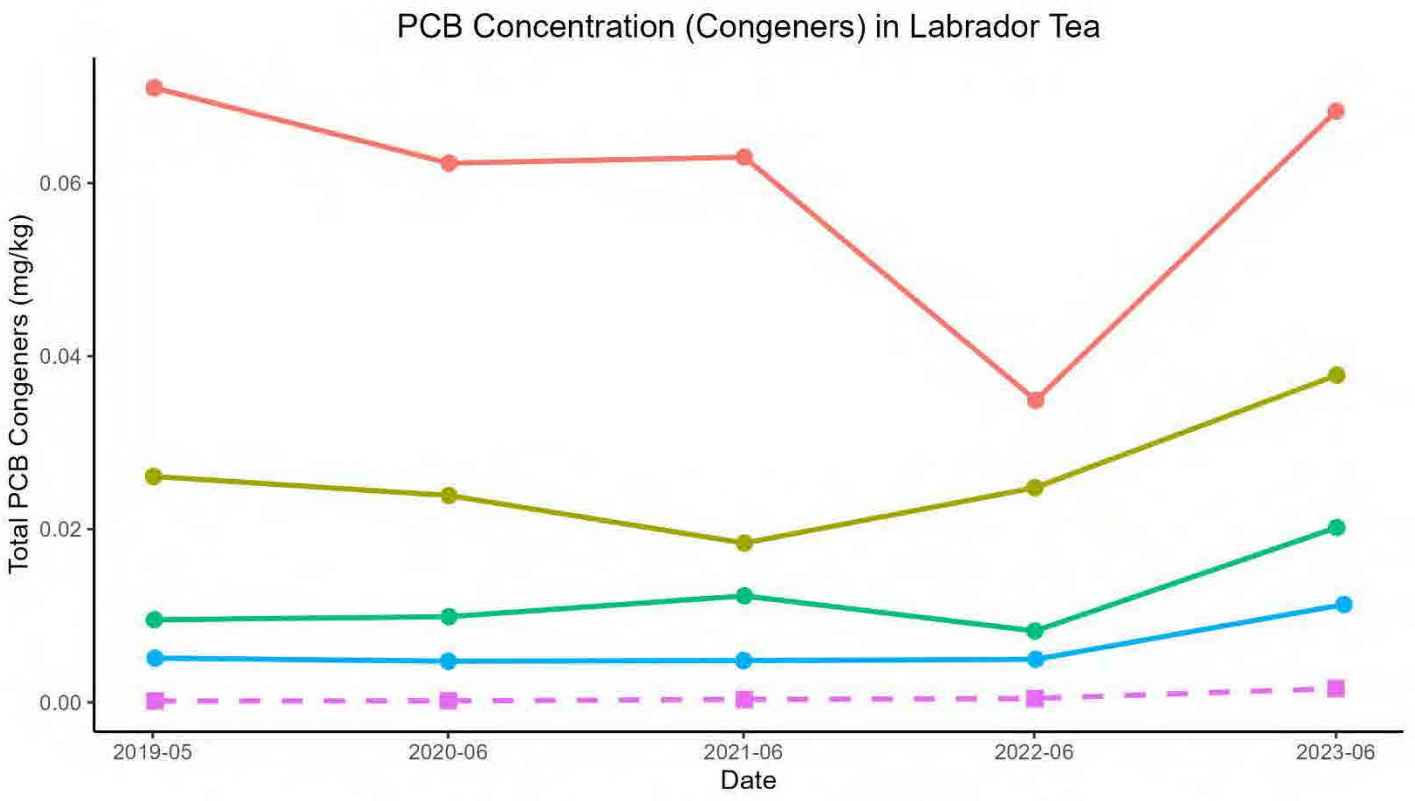
Figure E.27



Plot 4
Plot 109
Plot 114
Plot 11
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Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

PCB Concentration (Congeners)

Date:	Project:	Technical:	Reviewer:	Drawn:
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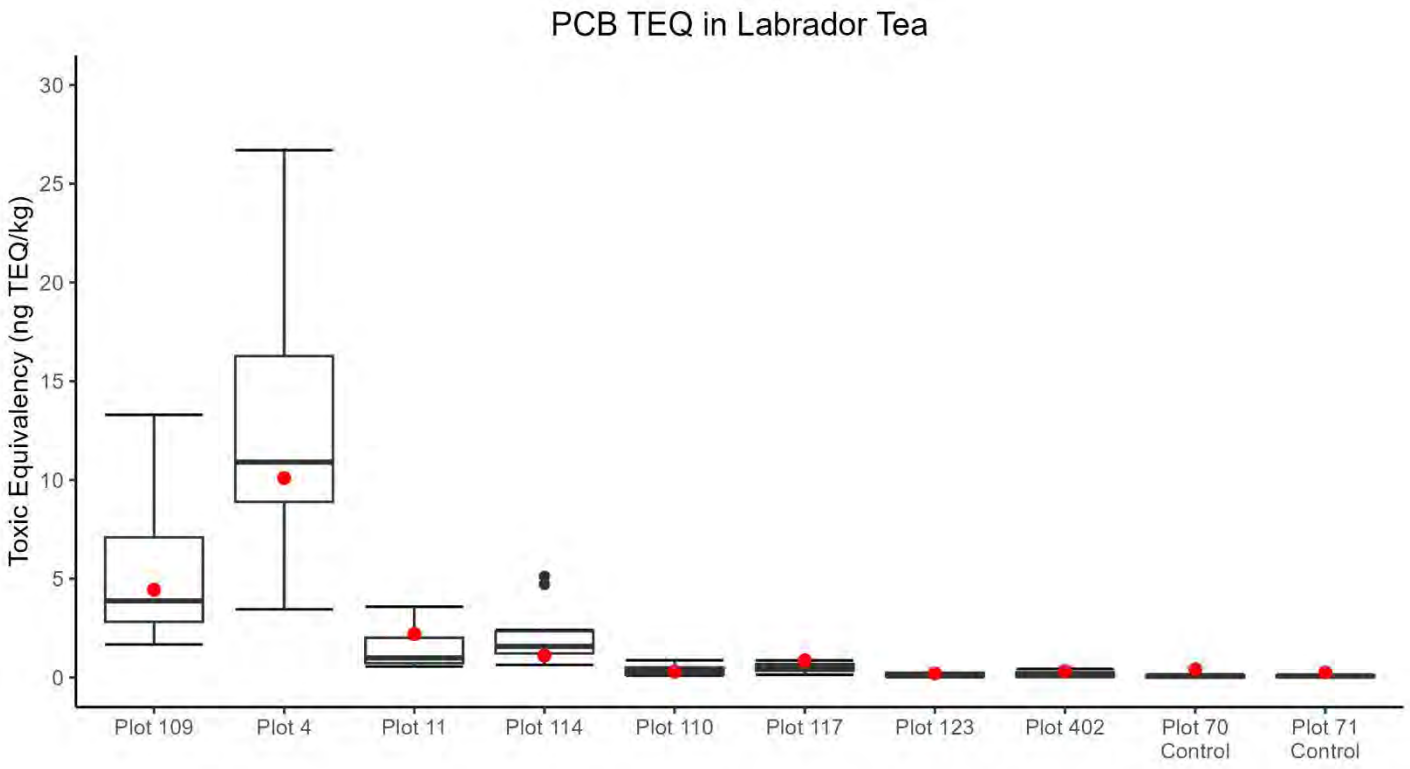
Figure E.28



- Median
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- 1.5×IQR boundary or most extreme data value
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Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

PCB TEQ

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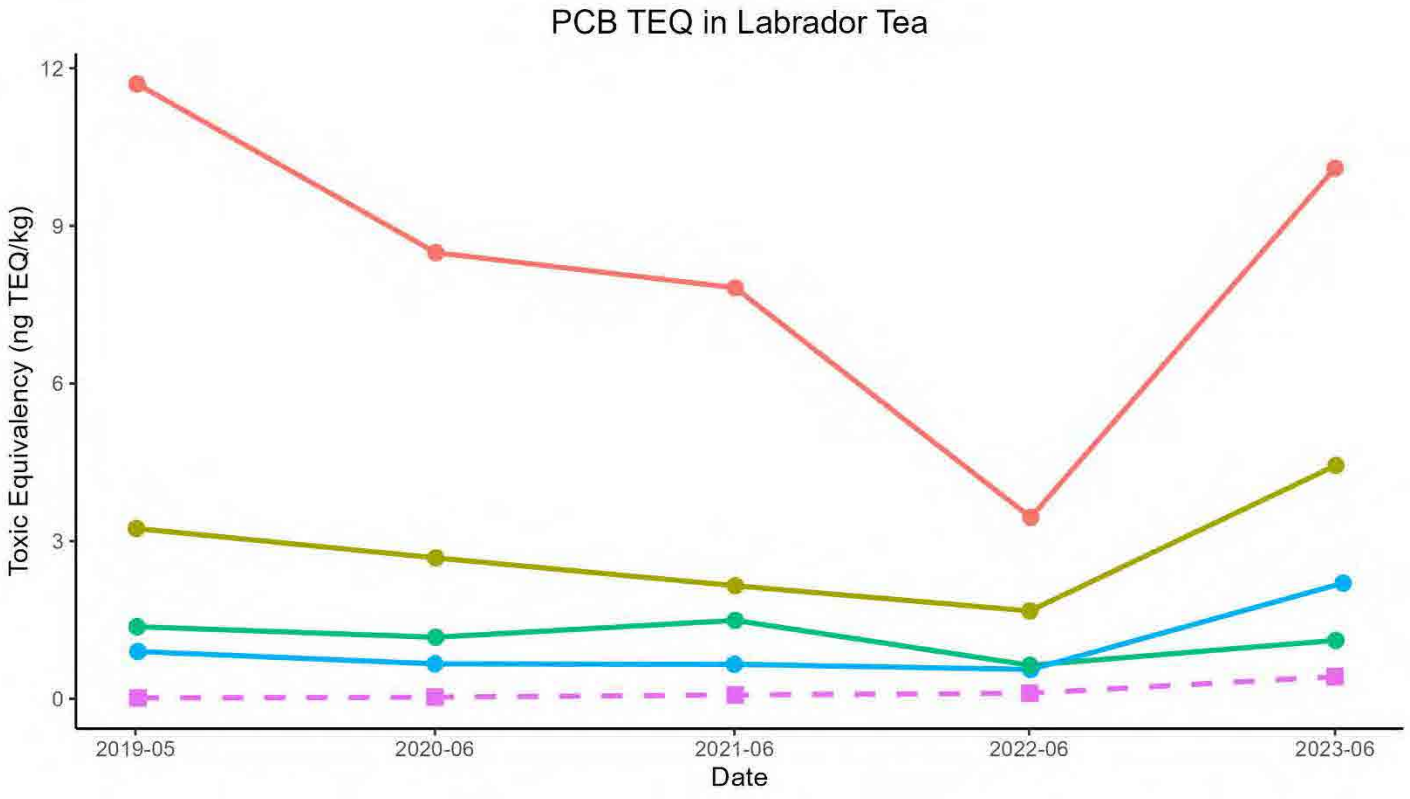
Figure E.29



Plot 4
Plot 109
Plot 114
Plot 11
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Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

PCB TEQ

Date:	Project:	Technical:	Reviewer:	Drawn:
October 17, 2023	15867-503	C. Ayer	L. Oiffer	J. Rich

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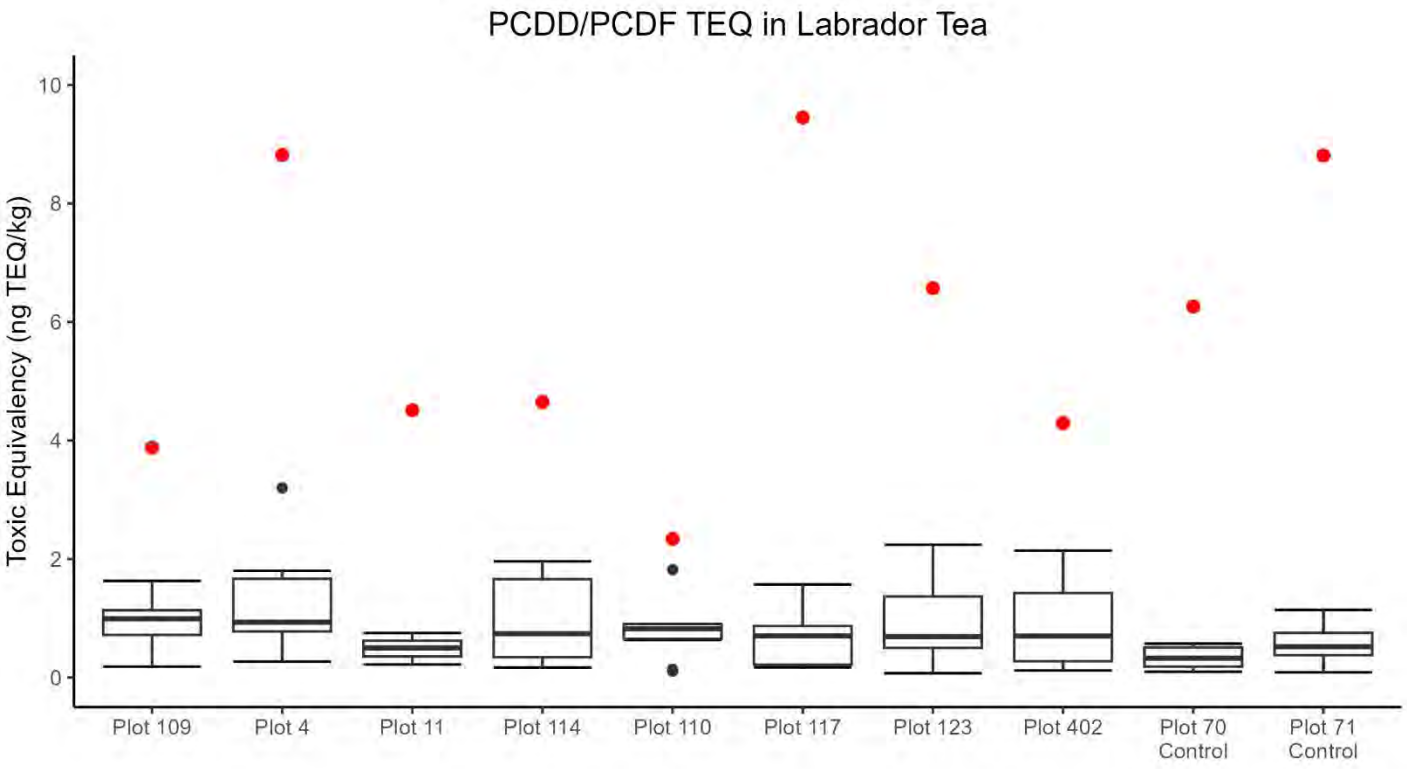
Figure E.30



— Median

Interquartile Range (IQR) (25th to 75th percentile)

1.5×IQR boundary or most extreme data value

● Outlier (Data point greater than 1.5×IQR)

● 2023 Sample

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VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

PCDD/PCDF TEQ

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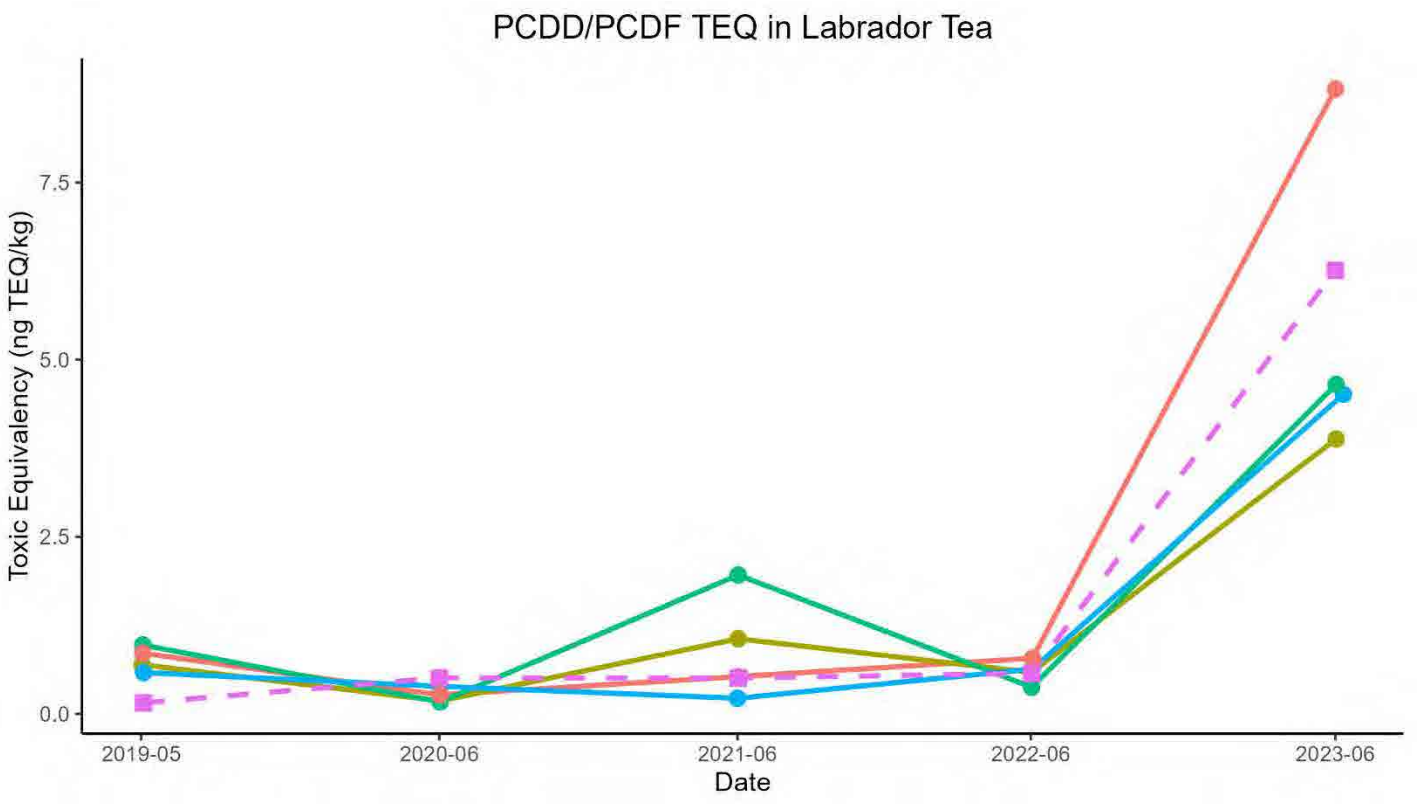
Figure E.31



- Plot 4
- Plot 109
- Plot 114
- Plot 11
- Plot 70 - Control

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VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

PCDD/PCDF TEQ

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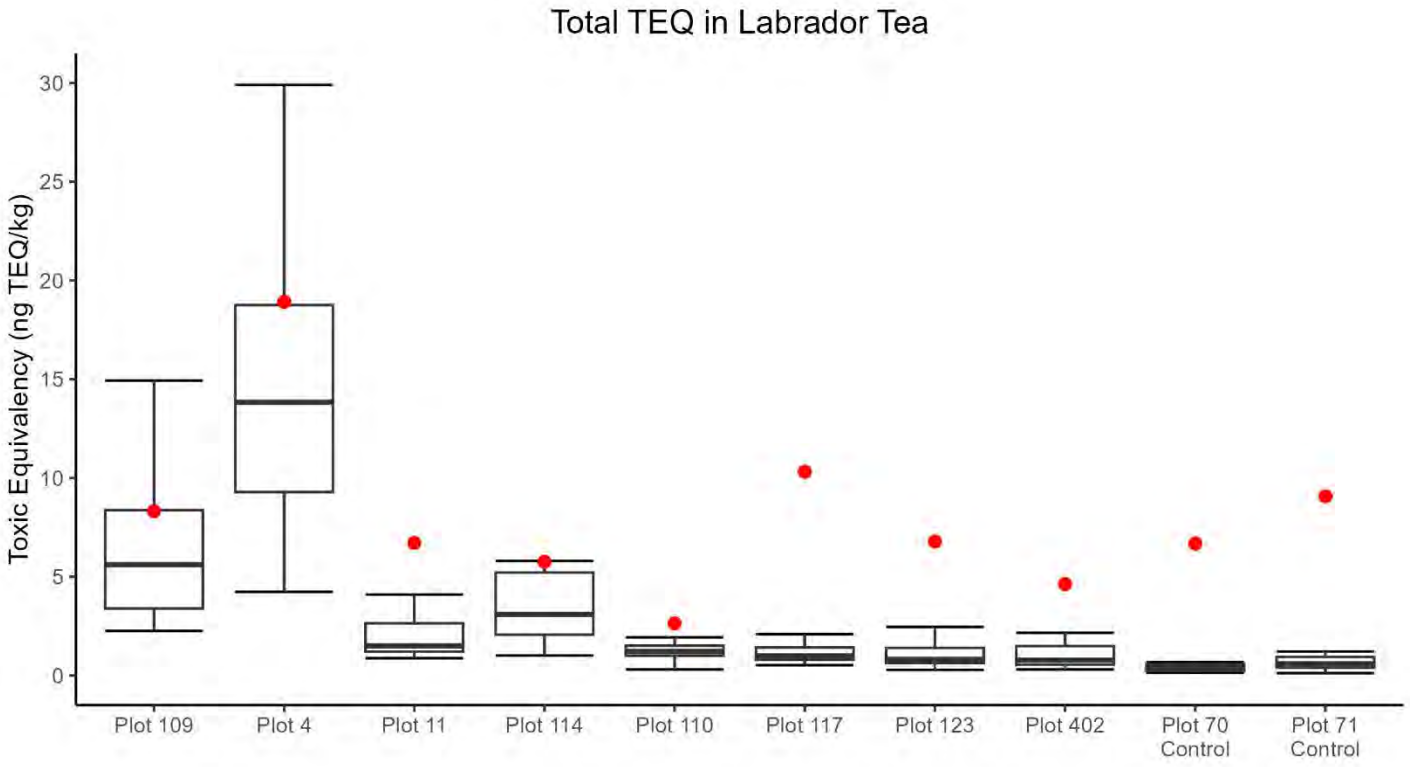
Figure E.32



- Median
- Interquartile Range (IQR) (25th to 75th percentile)
- 1.5×IQR boundary or most extreme data value
- Outlier (Data point greater than 1.5×IQR)
- 2023 Sample

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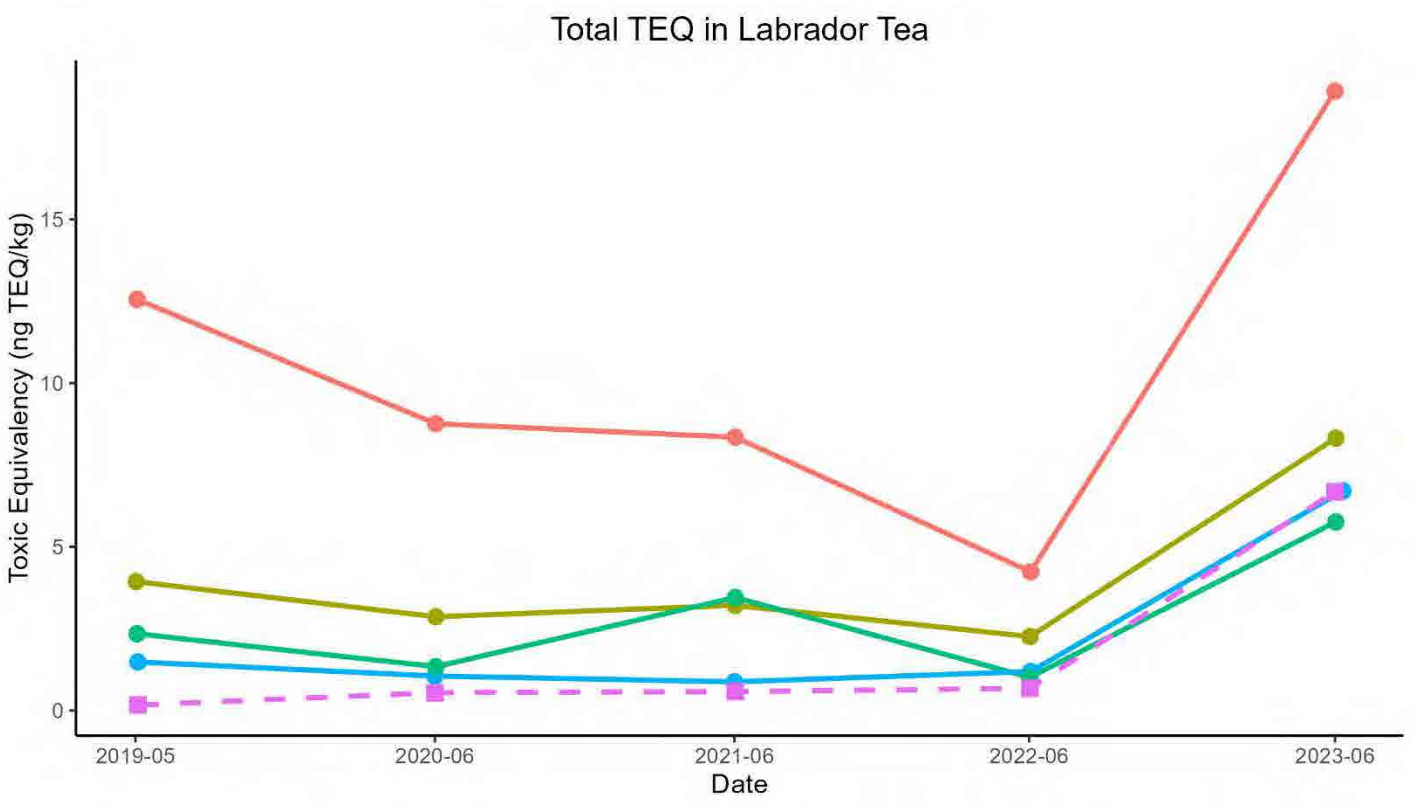
Figure E.33



- Plot 4
- Plot 109
- Plot 114
- Plot 11
- Plot 70 - Control

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Total TEQ

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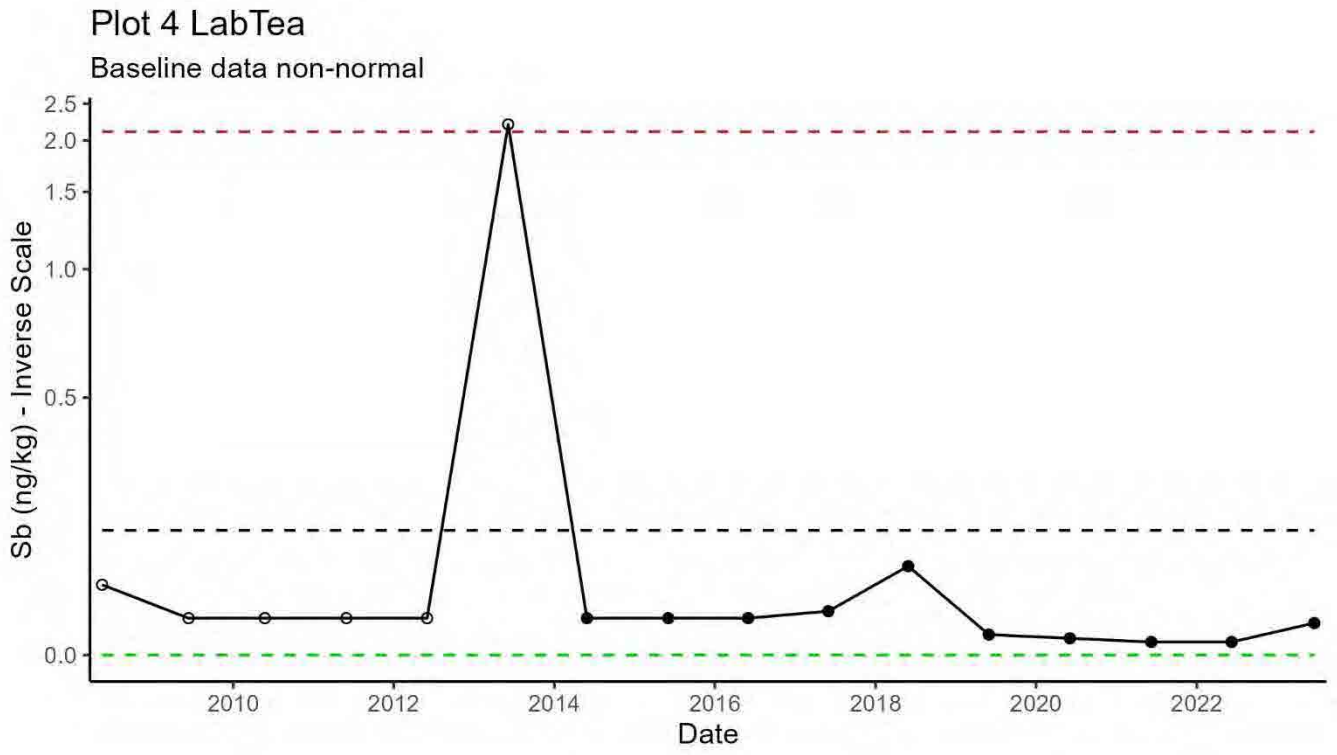
Figure E.34

APPENDIX F
Control Charts

APPENDIX F
Plot 4 – Control Charts



Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

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Antimony

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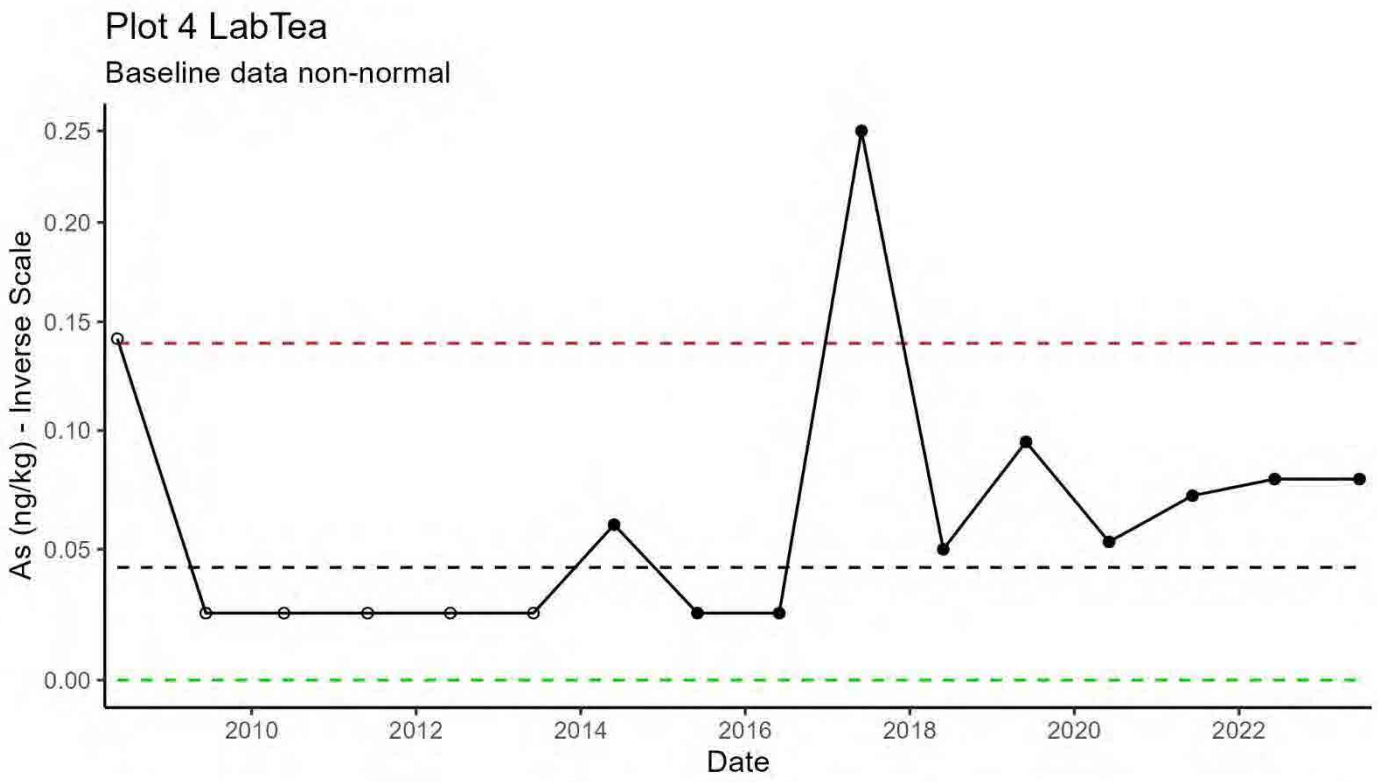
Figure F.1



Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

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Arsenic

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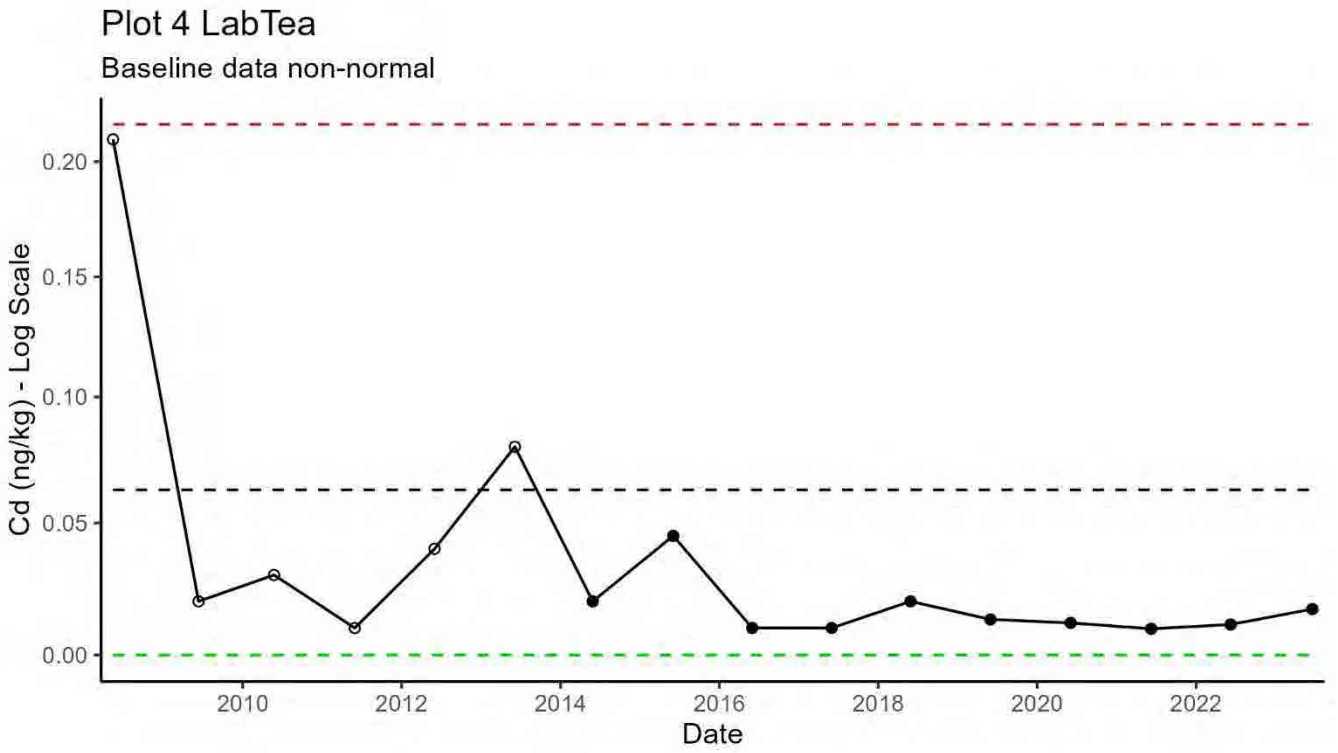
Figure F.2



- Post-baseline value
- Value used in baseline estimates
- Baseline mean
- Upper control limit
- Lower control limit

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Cadmium

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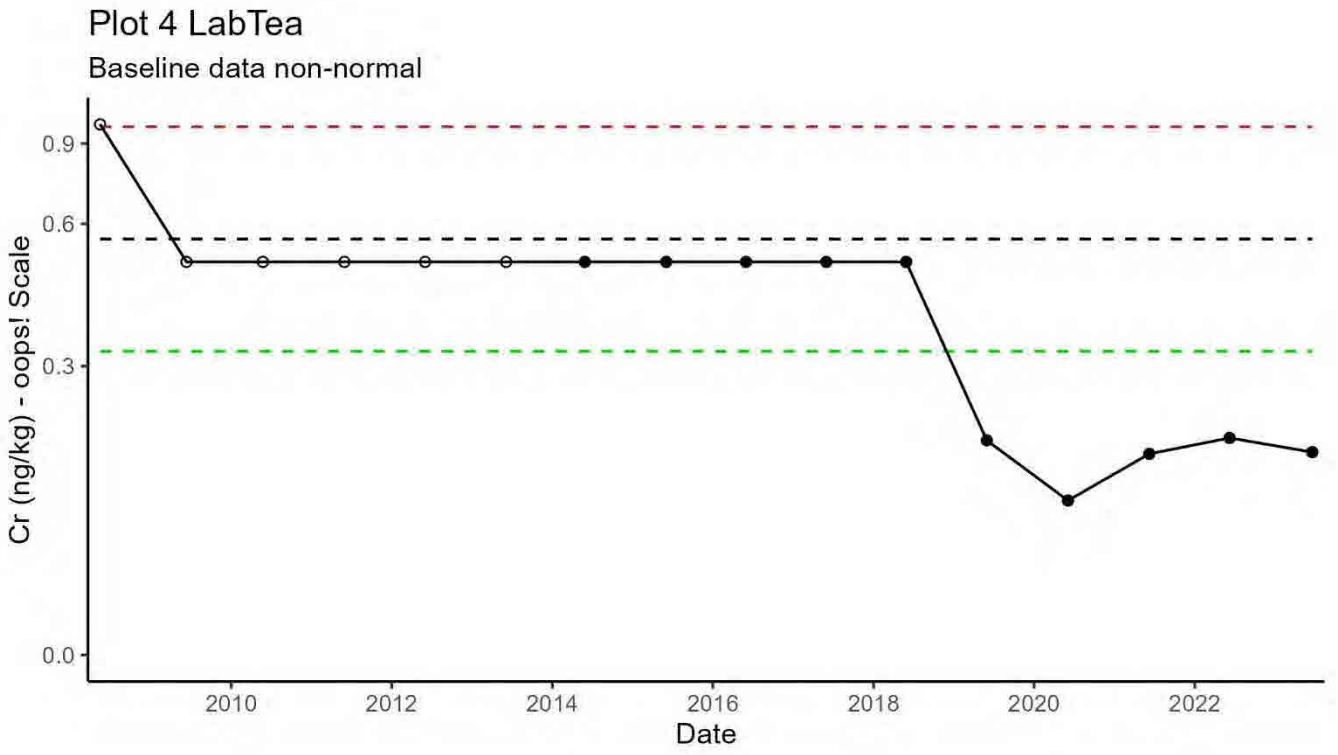
Figure F.3



Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

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Chromium

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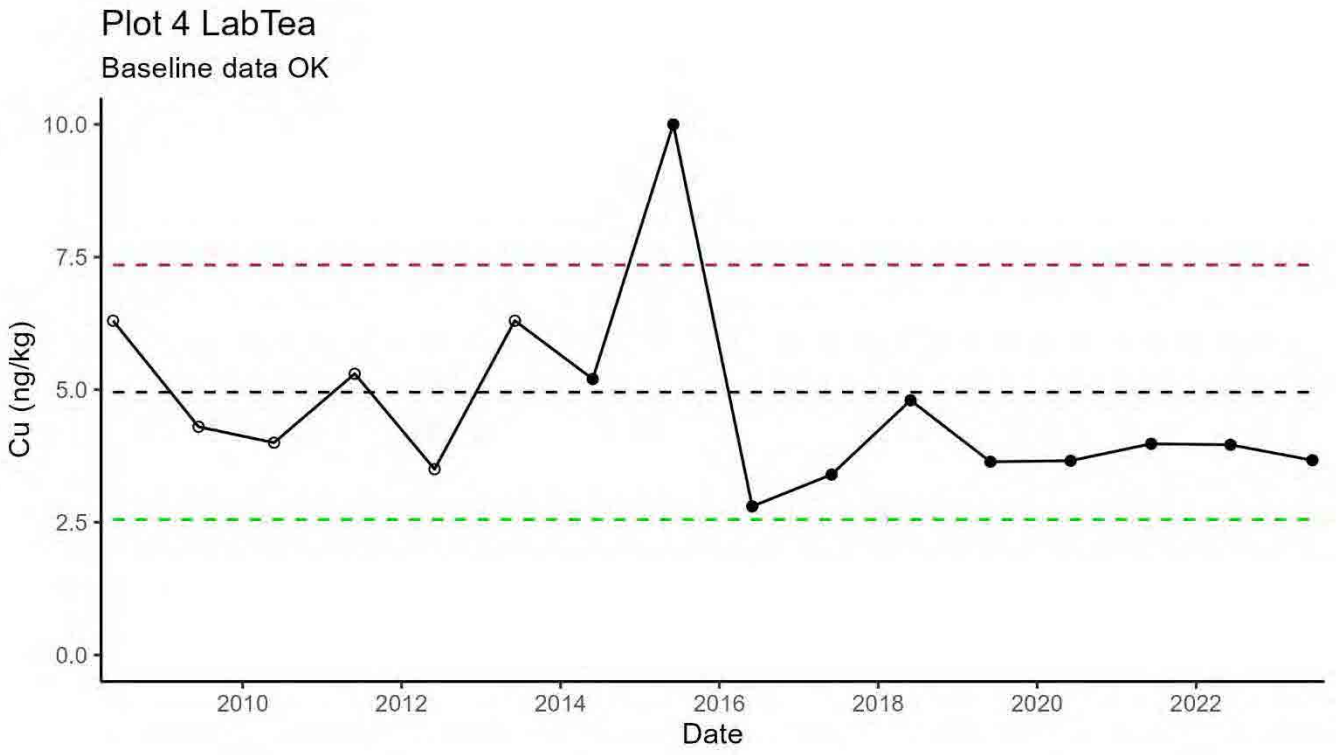
Figure F.4



Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

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Copper

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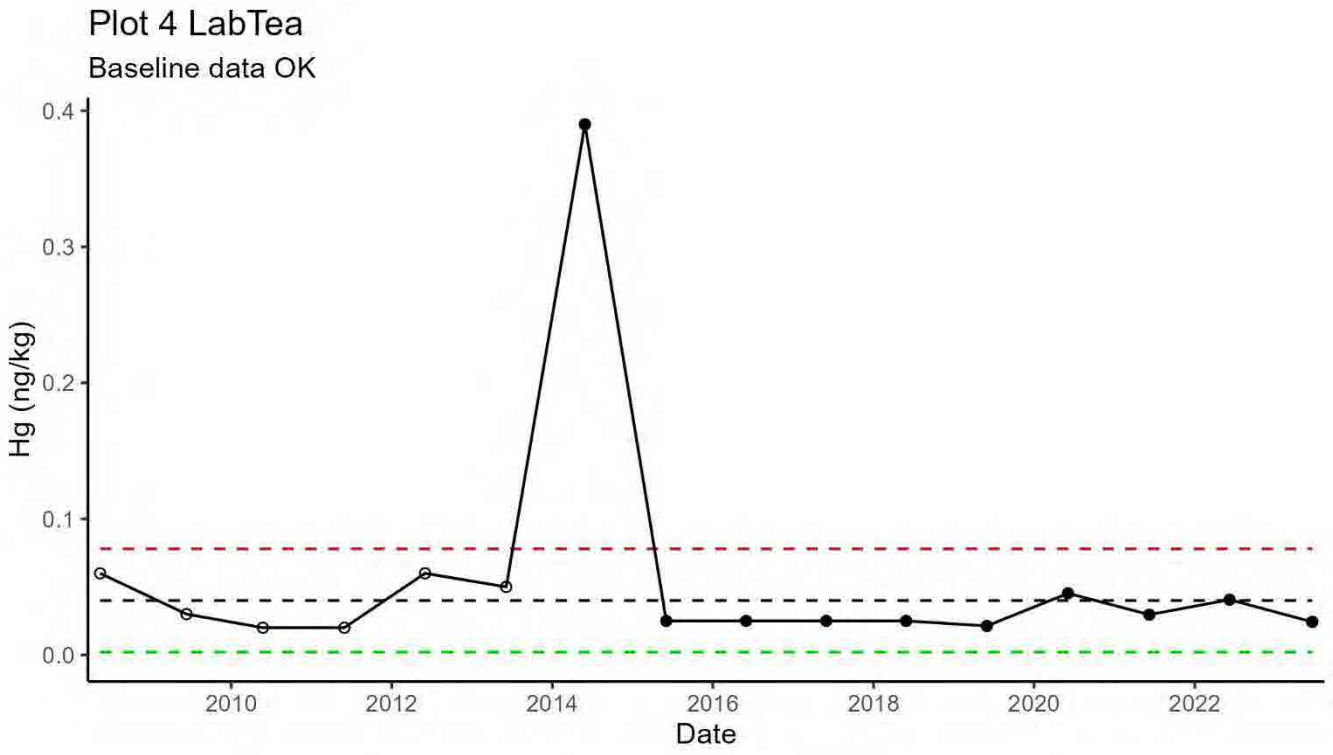
Figure F.5



Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

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Mercury

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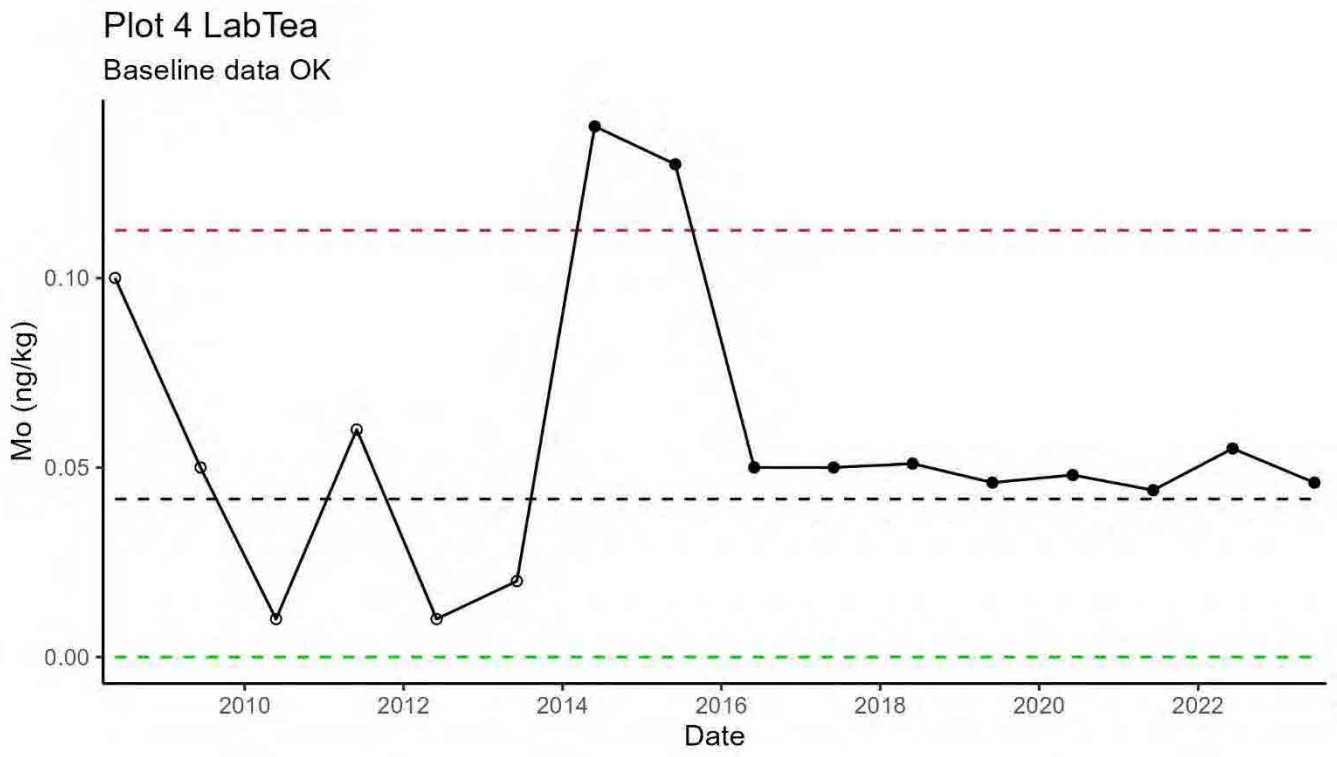
Figure **F.6**



- Post-baseline value
- Value used in baseline estimates
- Baseline mean
- Upper control limit
- Lower control limit

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Molybdenum

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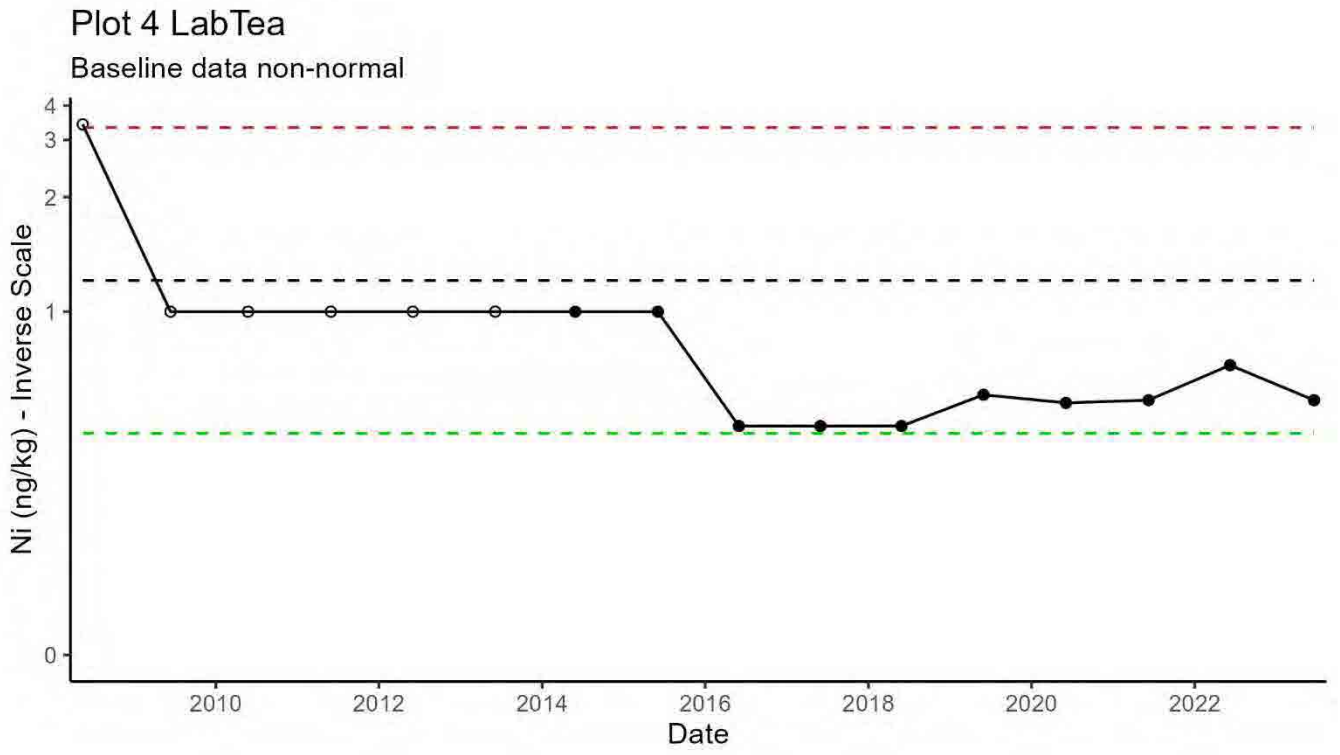
Figure F.7



- Post-baseline value
- Value used in baseline estimates
- Baseline mean
- Upper control limit
- Lower control limit

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Nickel

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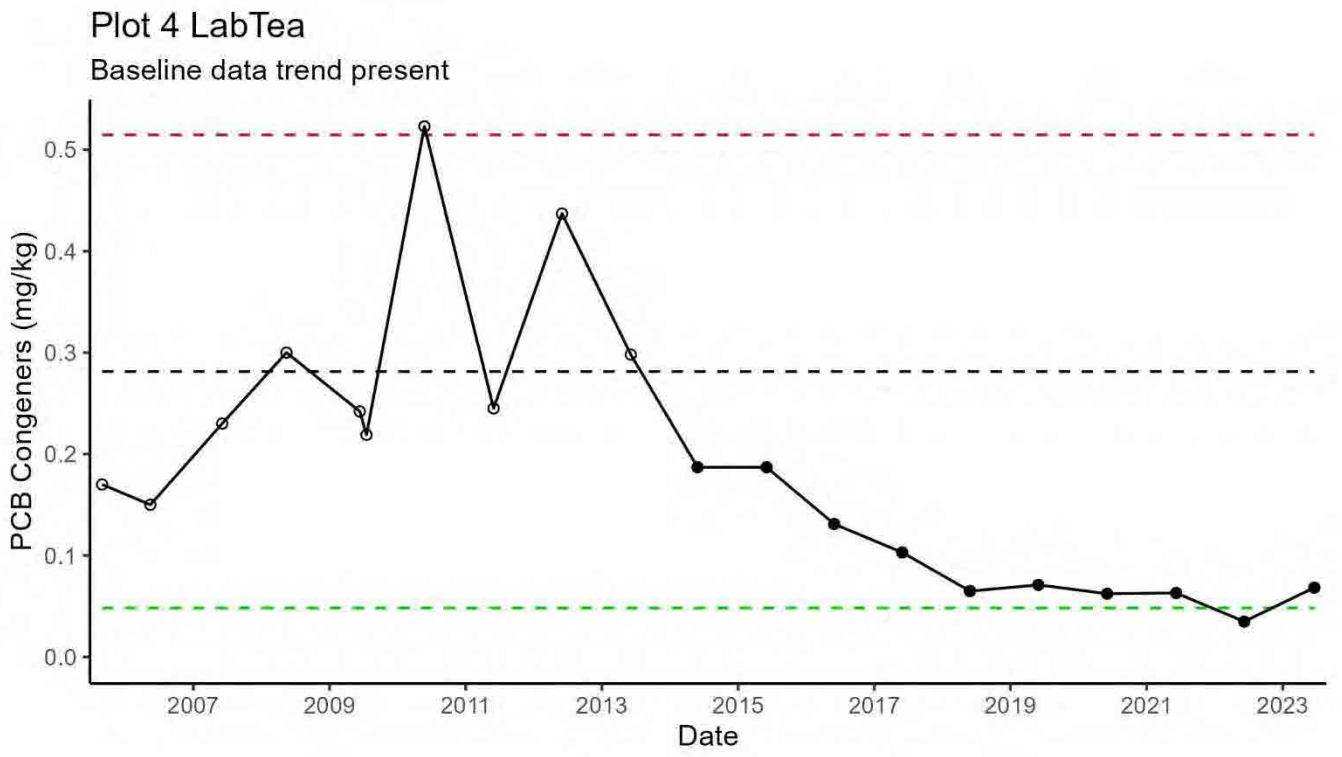
Figure F.8



Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

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PCB Congeners

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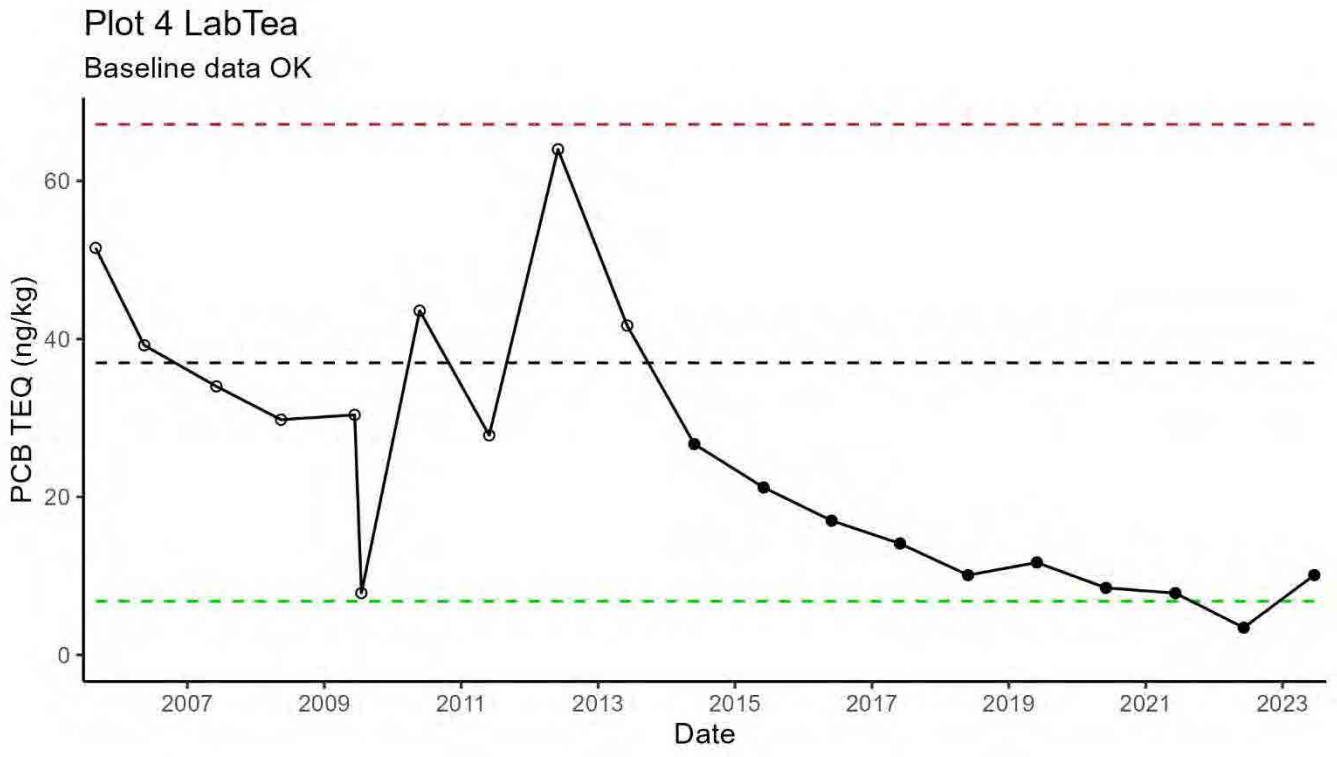
Figure F.9



Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

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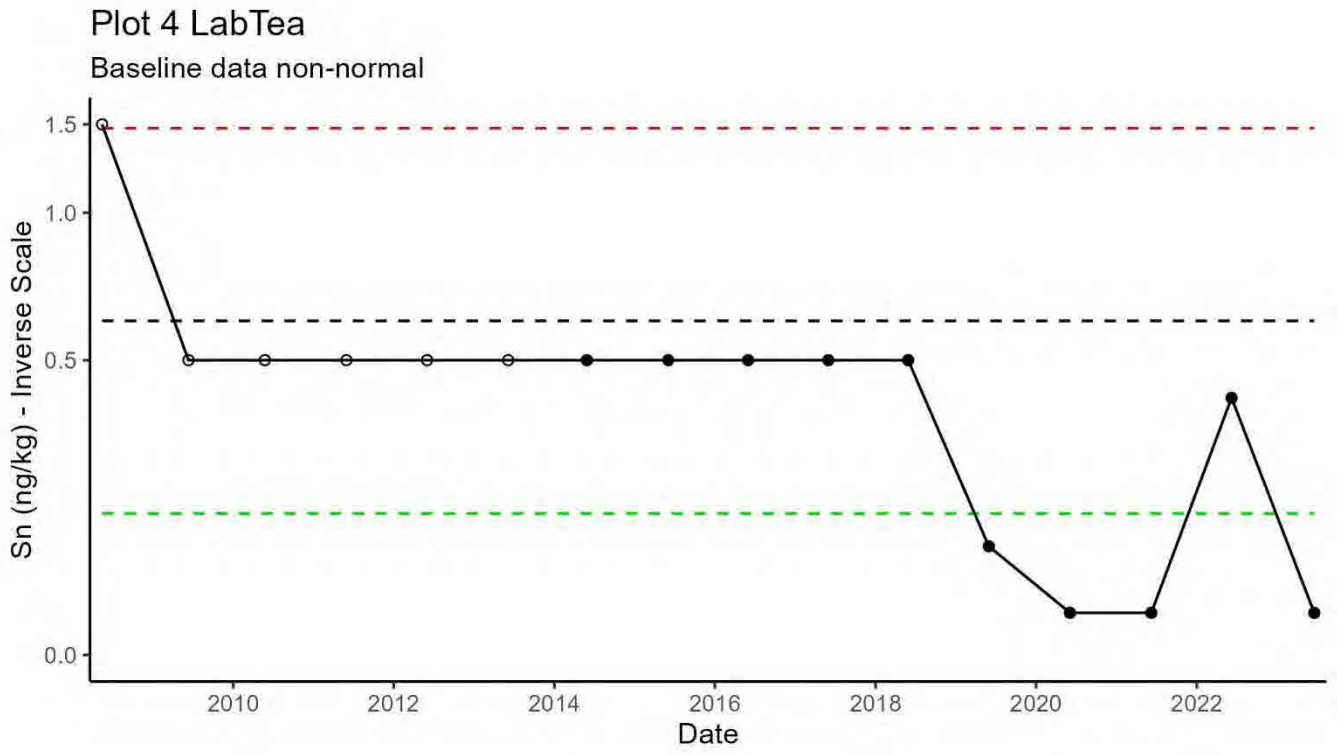
Figure F.10



Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

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Tin

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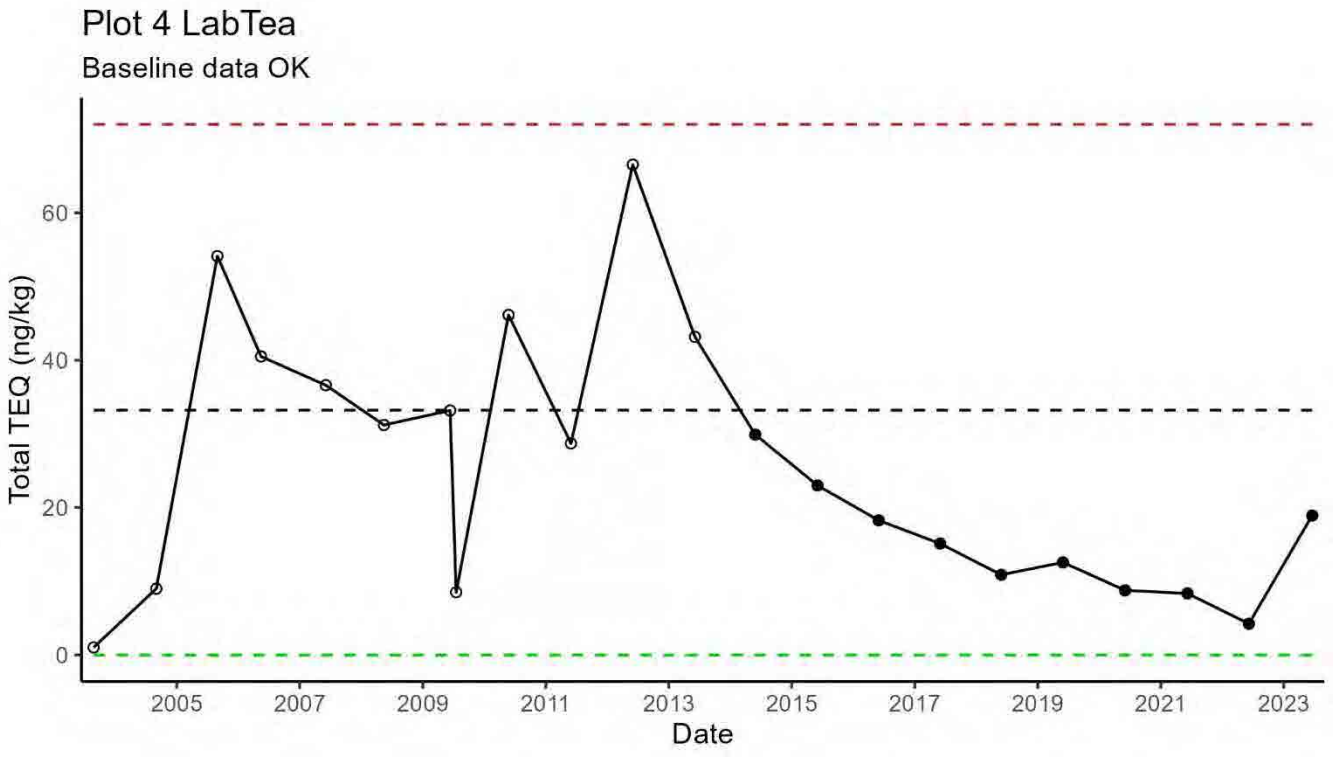
Figure F.11



Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

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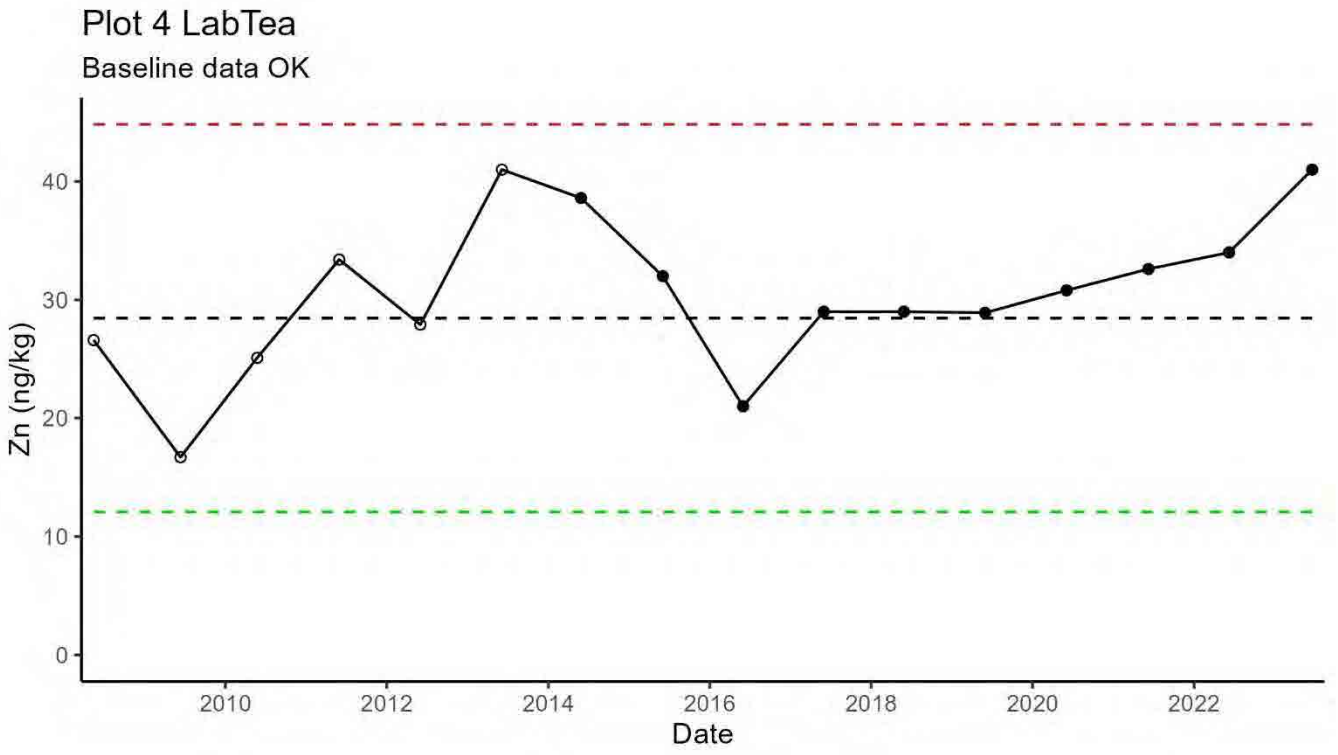
Figure F.12



Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

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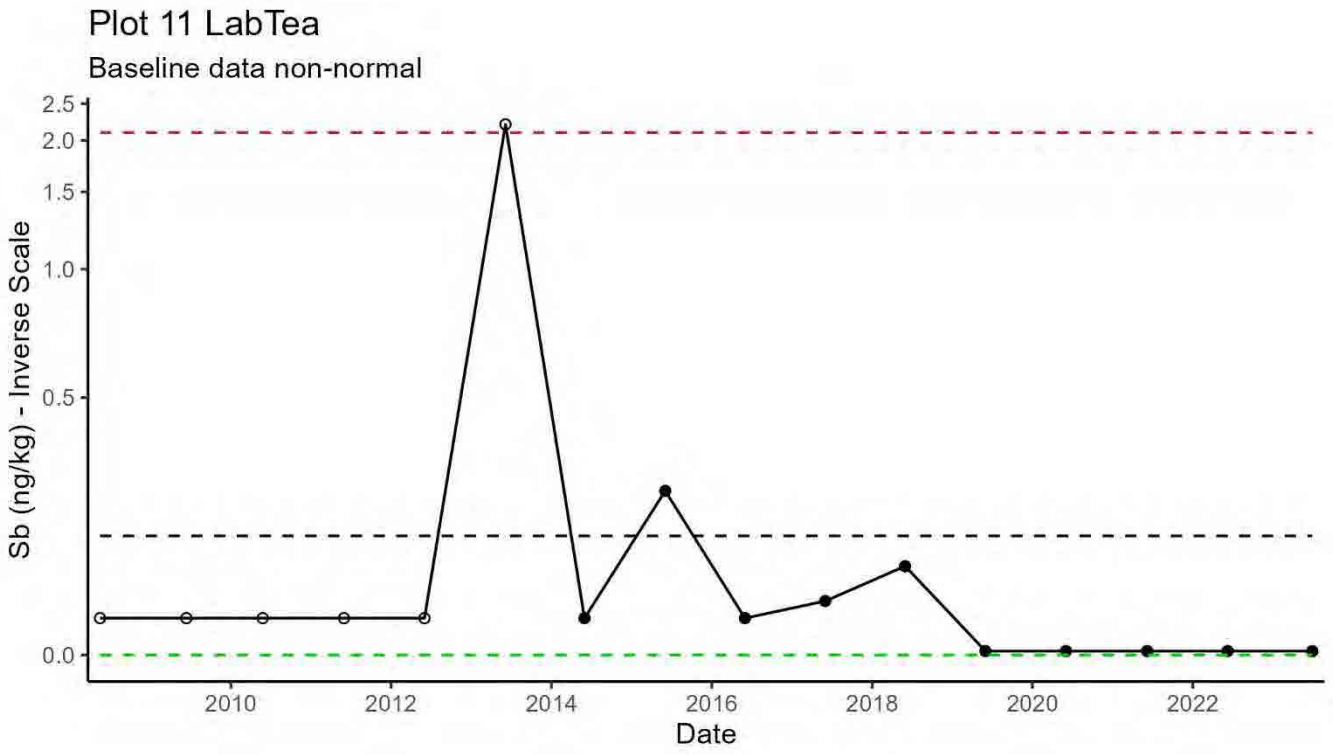
Figure F.13

APPENDIX F
Plot 11 – Control Charts



Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

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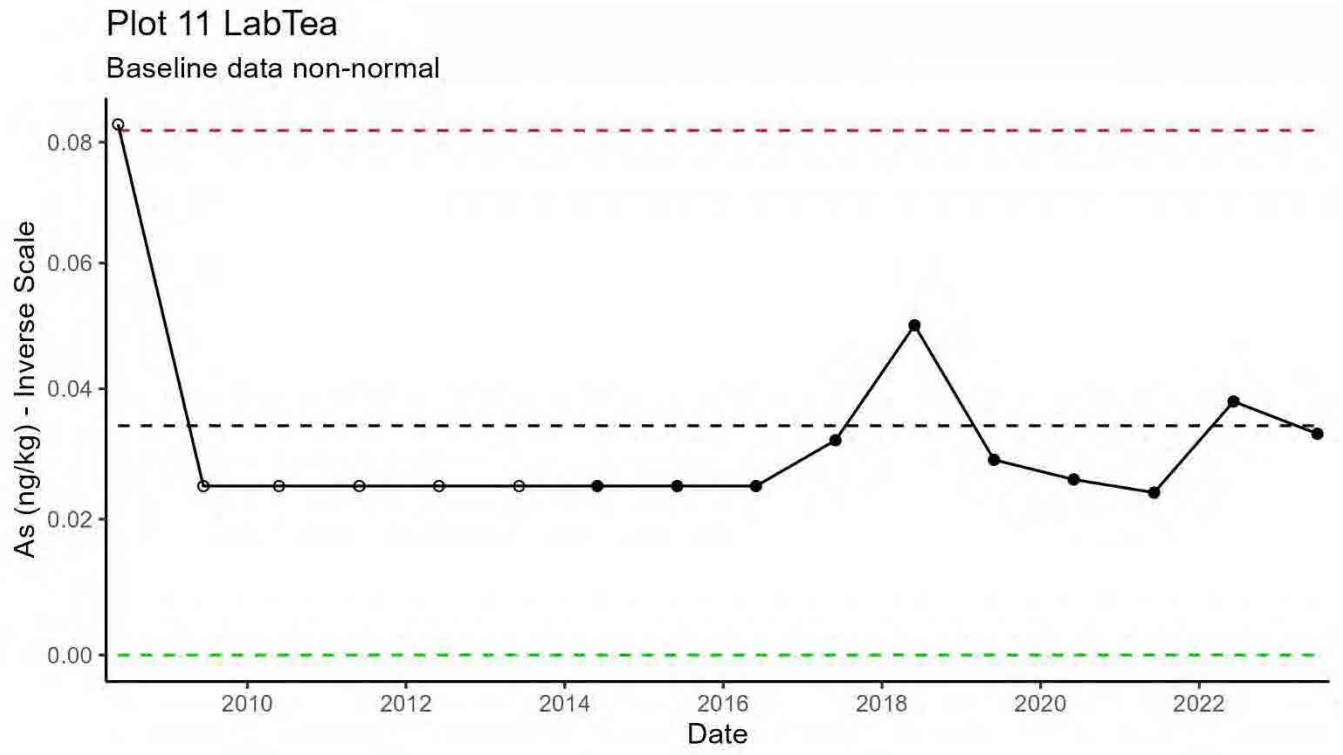
Figure F.14



- Post-baseline value
- Value used in baseline estimates
- Baseline mean
- Upper control limit
- Lower control limit

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Arsenic

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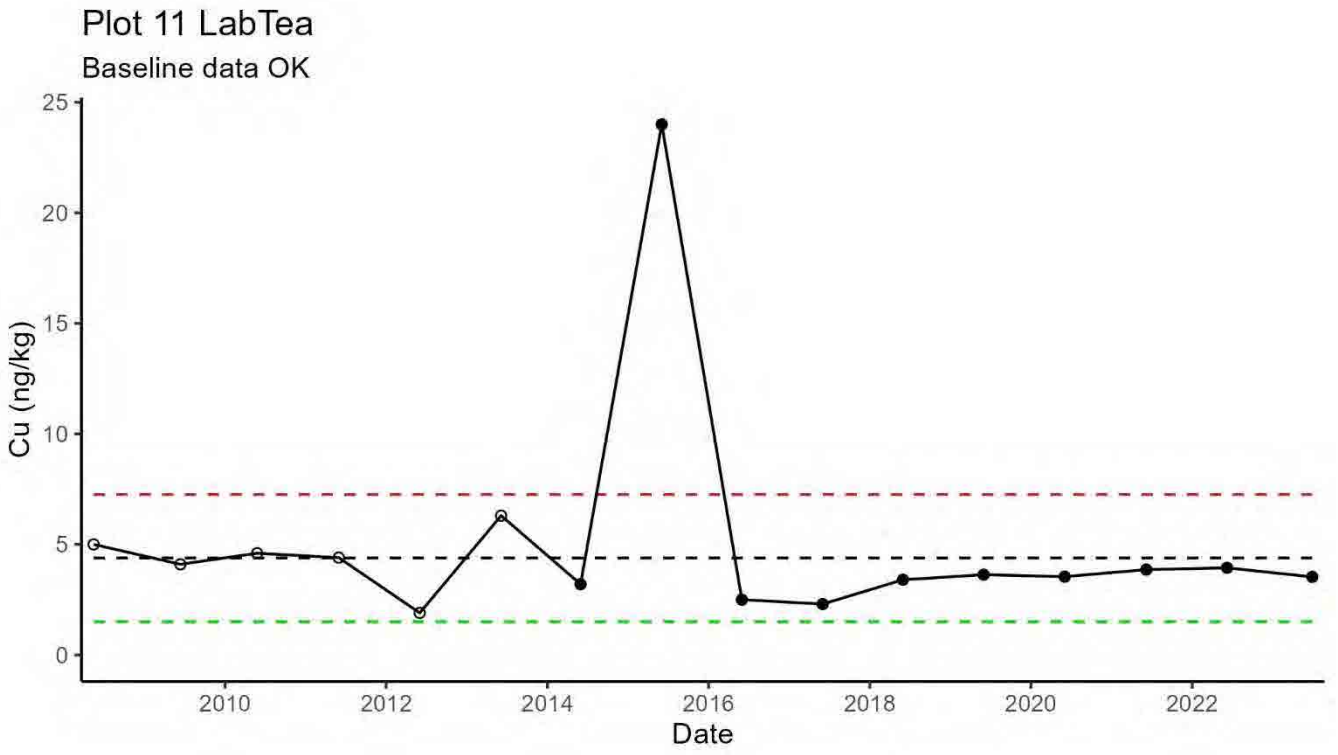
Figure F.15



Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

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Copper

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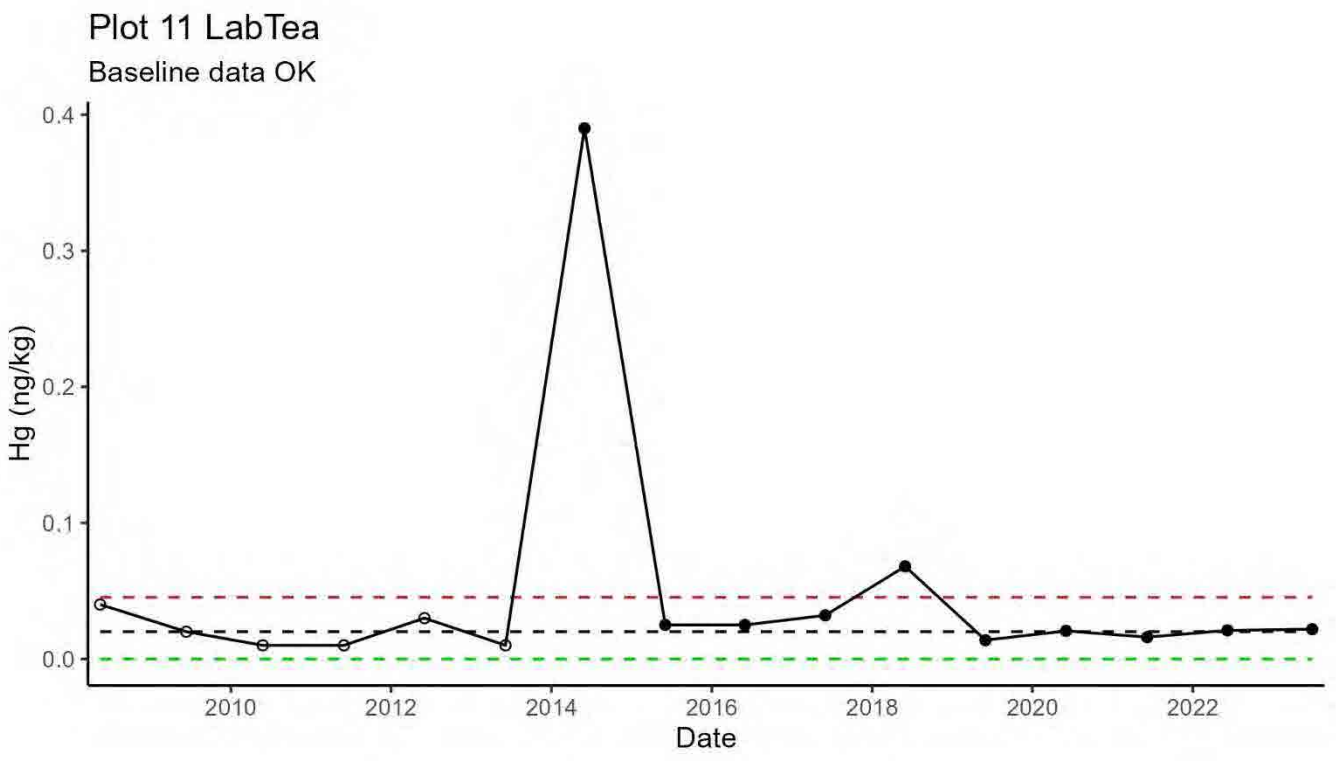
Figure F.16



Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

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Mercury

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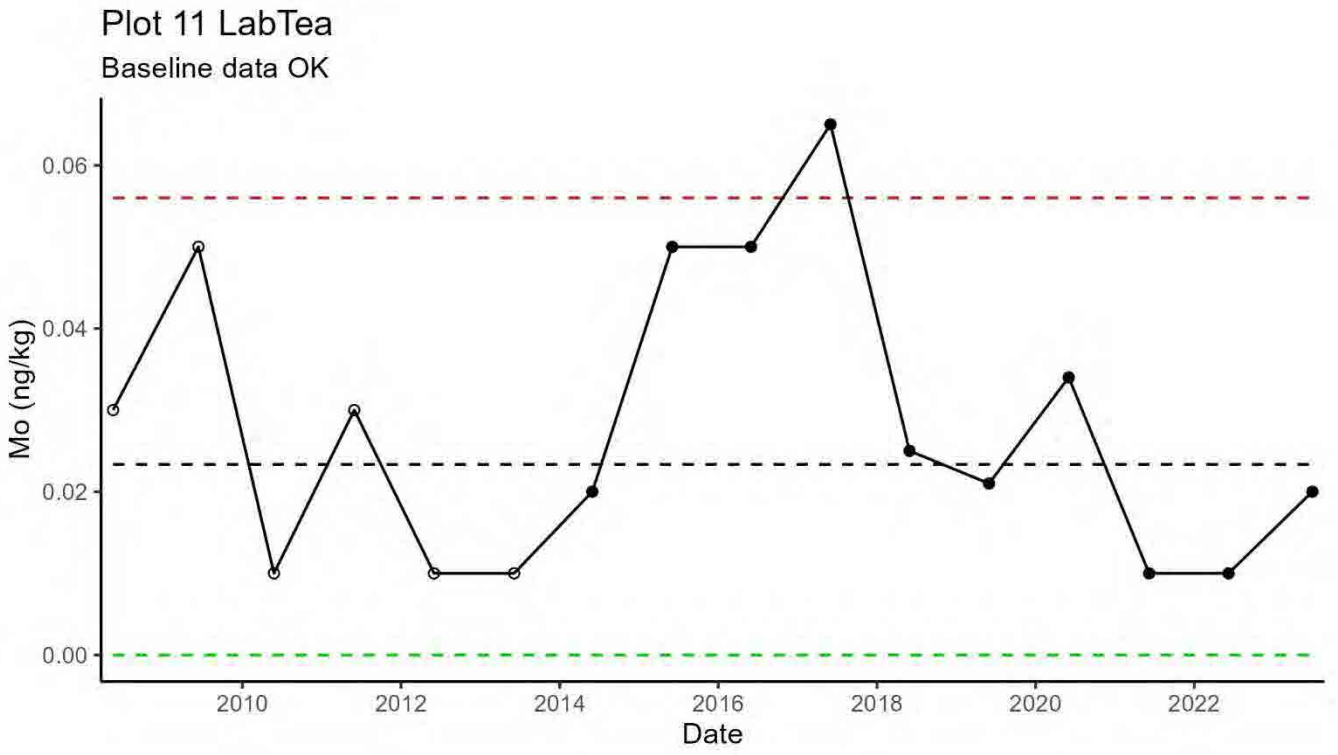
Figure **F.17**



Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

Matrix Solutions Inc.
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Molybdenum

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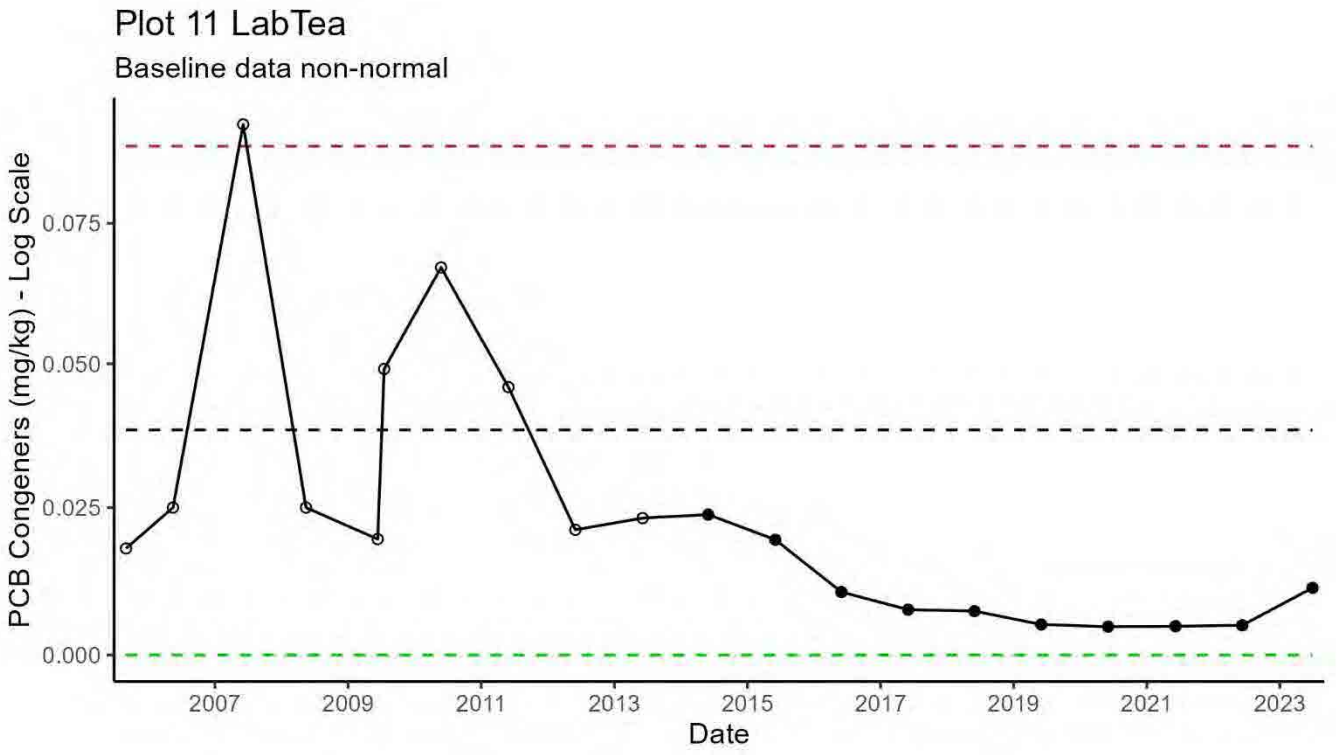
Figure F.18



Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

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VEOLIA – Swan Hills Treatment Centre
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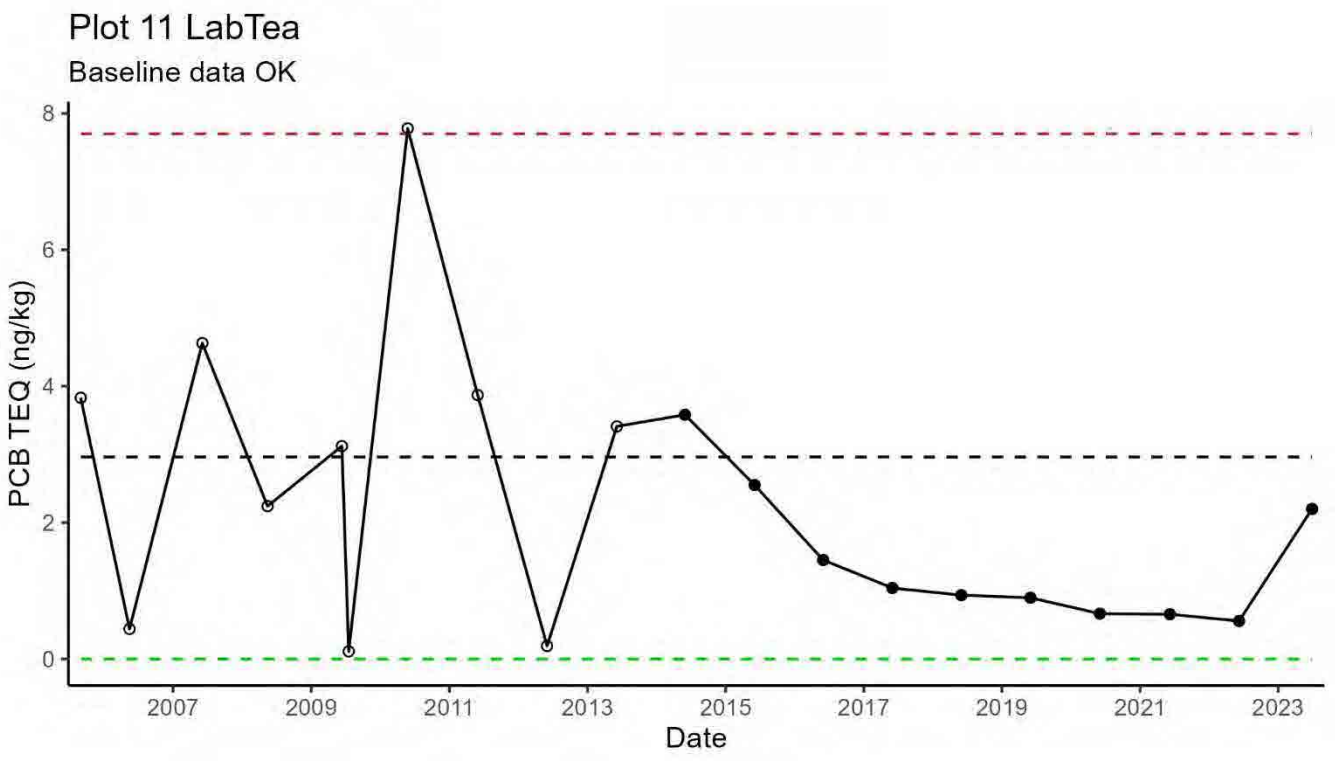
Figure F.19



Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

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VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

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Date:	Project:	Technical:	Reviewer:	Drawn:
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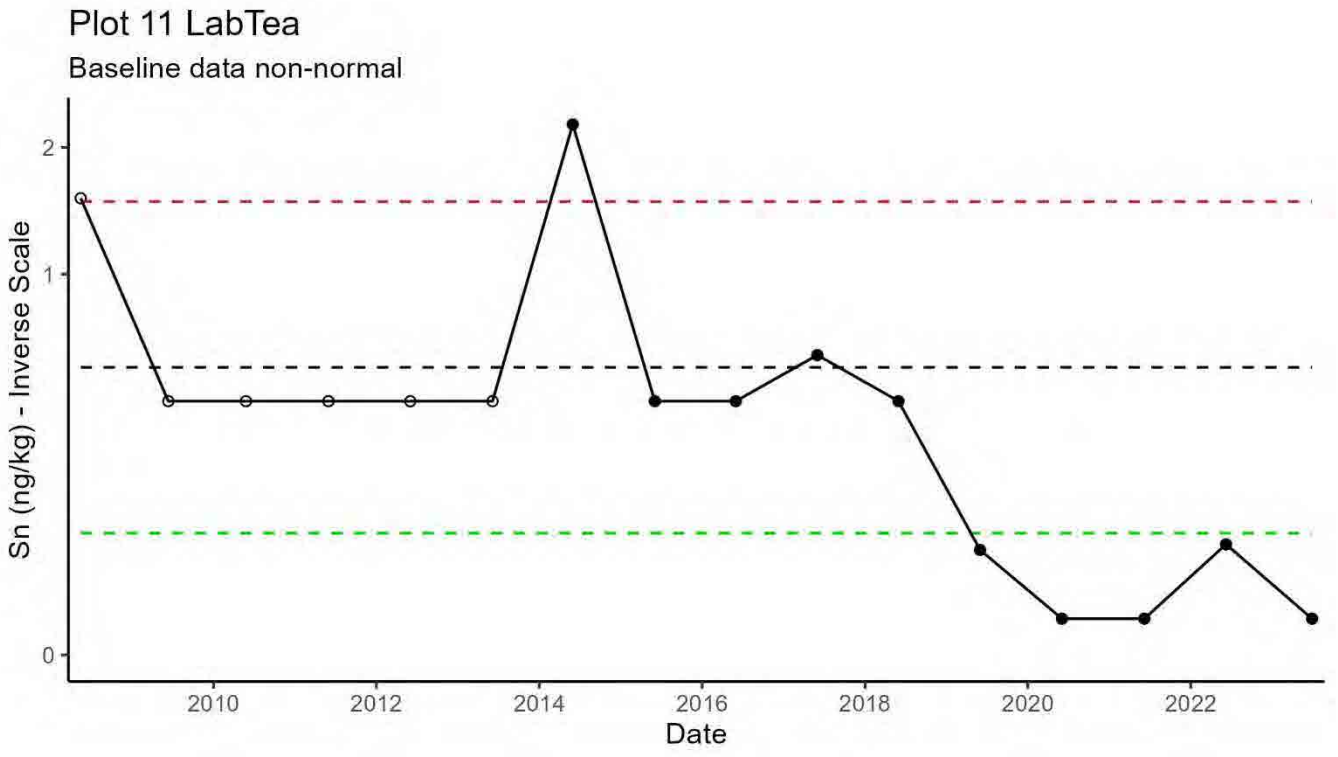
Figure F.20



Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

Tin

Date:	Project:	Technical:	Reviewer:	Drawn:
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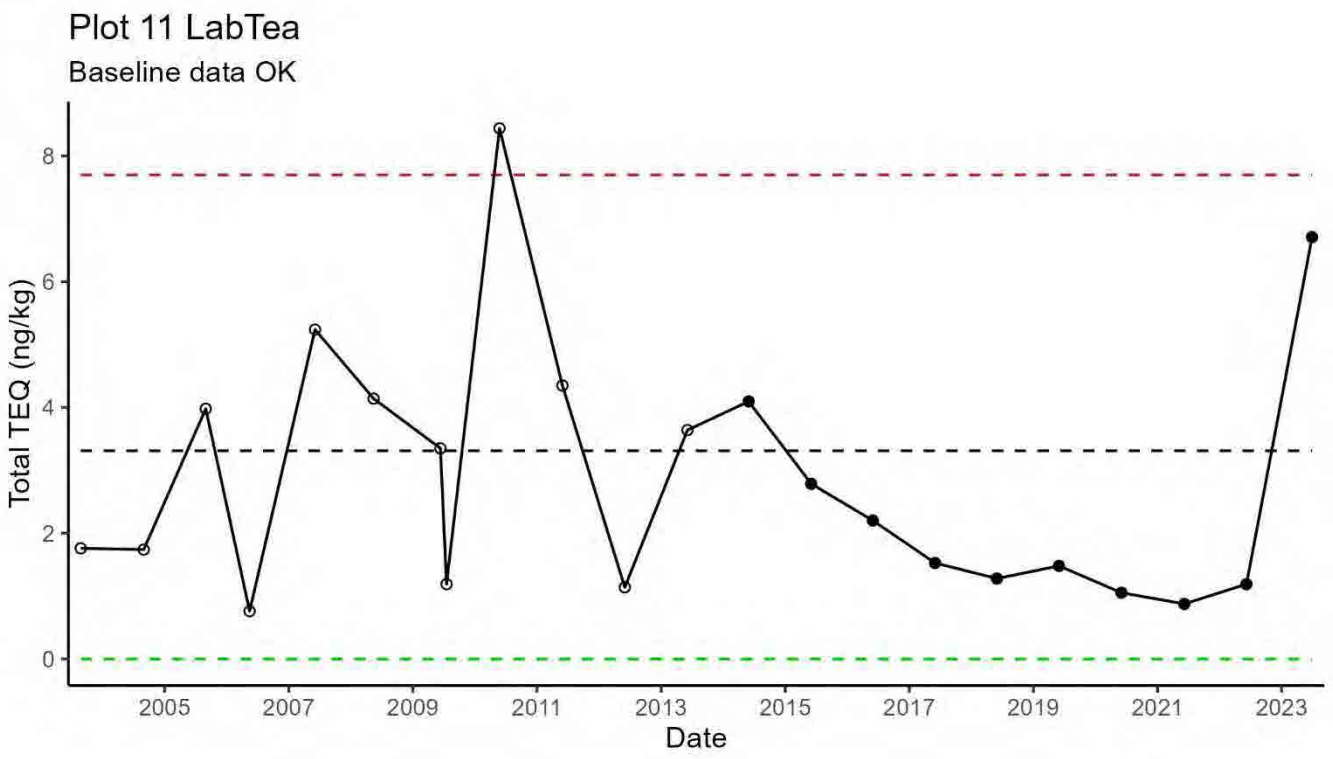
Figure F.21



Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

Total TEQ

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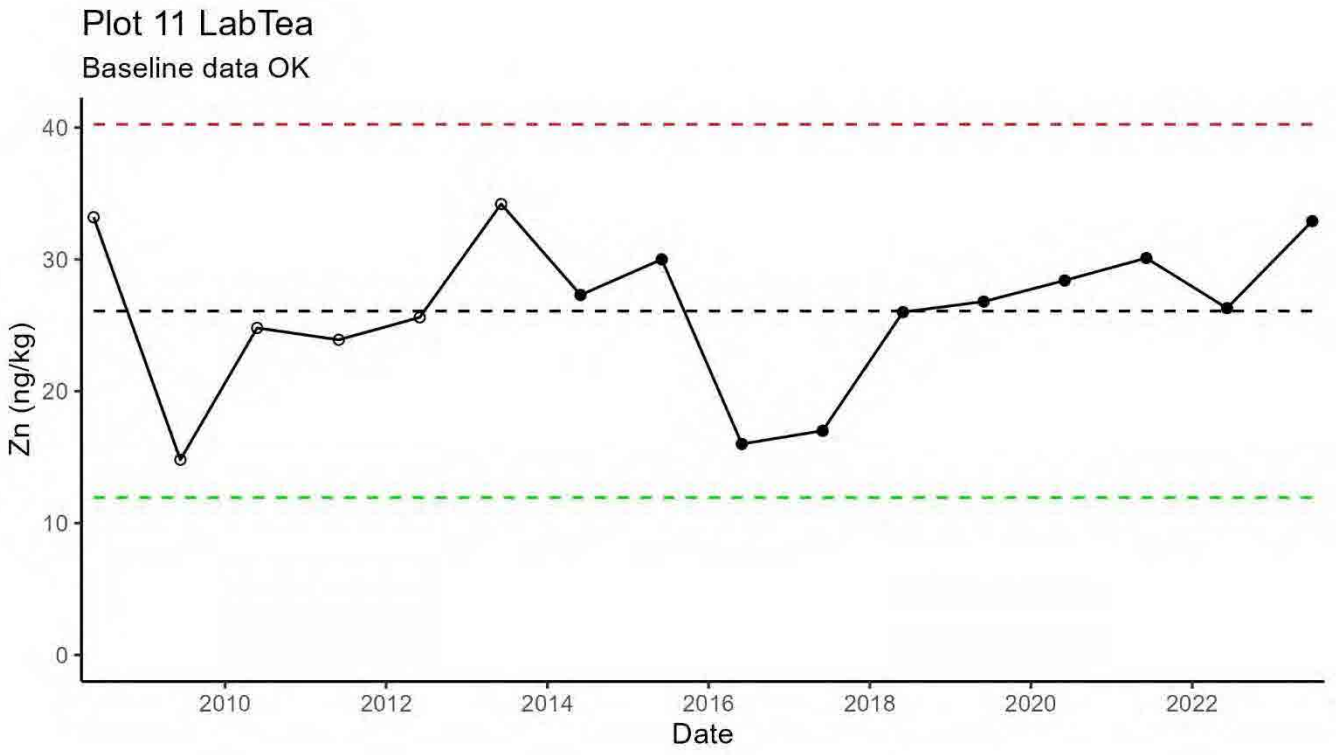
Figure F.22



Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

Zinc

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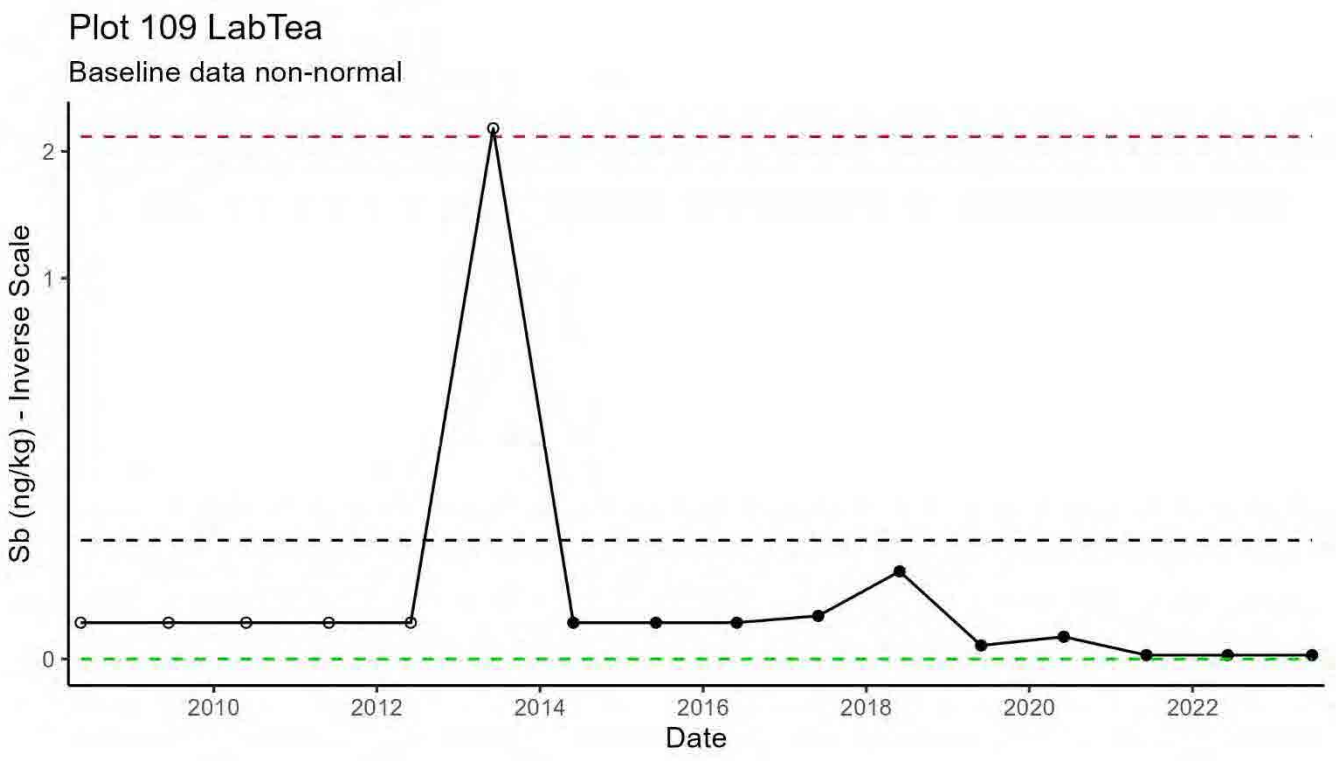
Figure **F.23**

APPENDIX F
Plot 109 – Control Charts



Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

Matrix Solutions Inc.
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VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

Antimony

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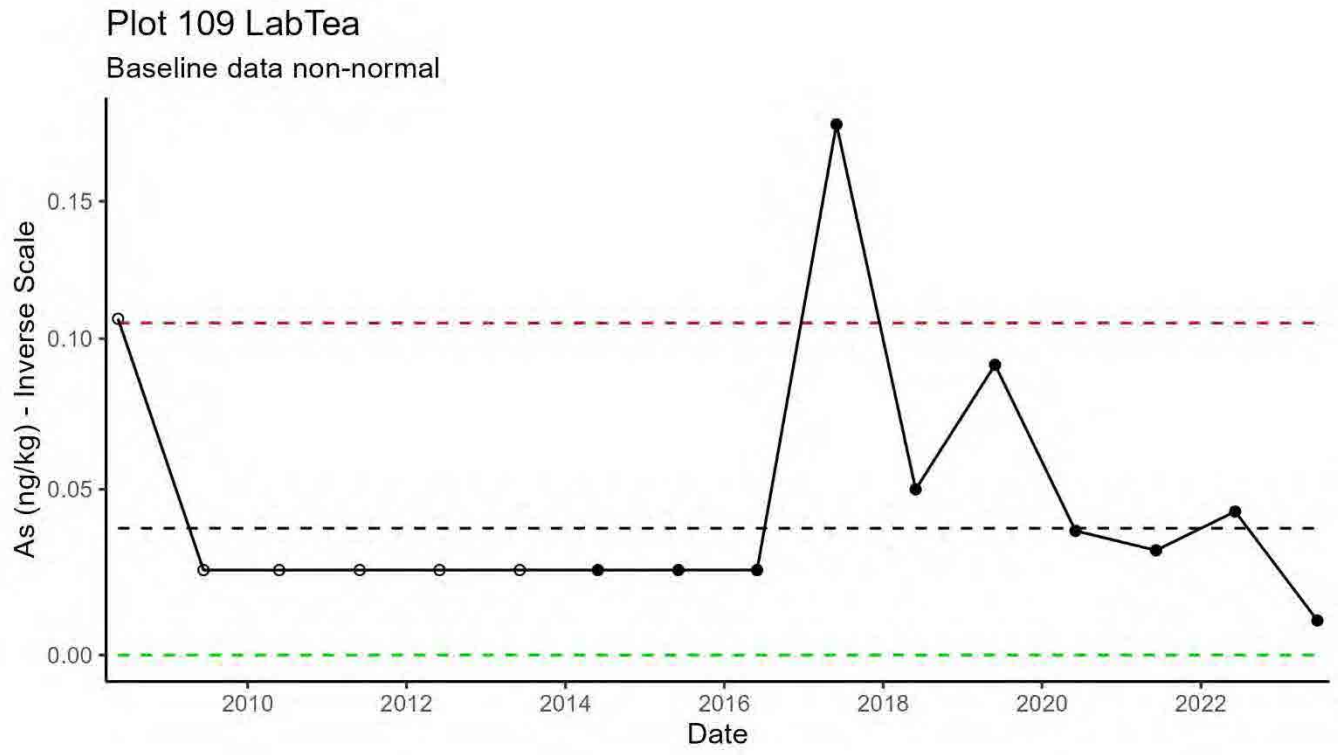
Figure F.24



- Post-baseline value
- Value used in baseline estimates
- Baseline mean
- Upper control limit
- Lower control limit

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VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

Arsenic

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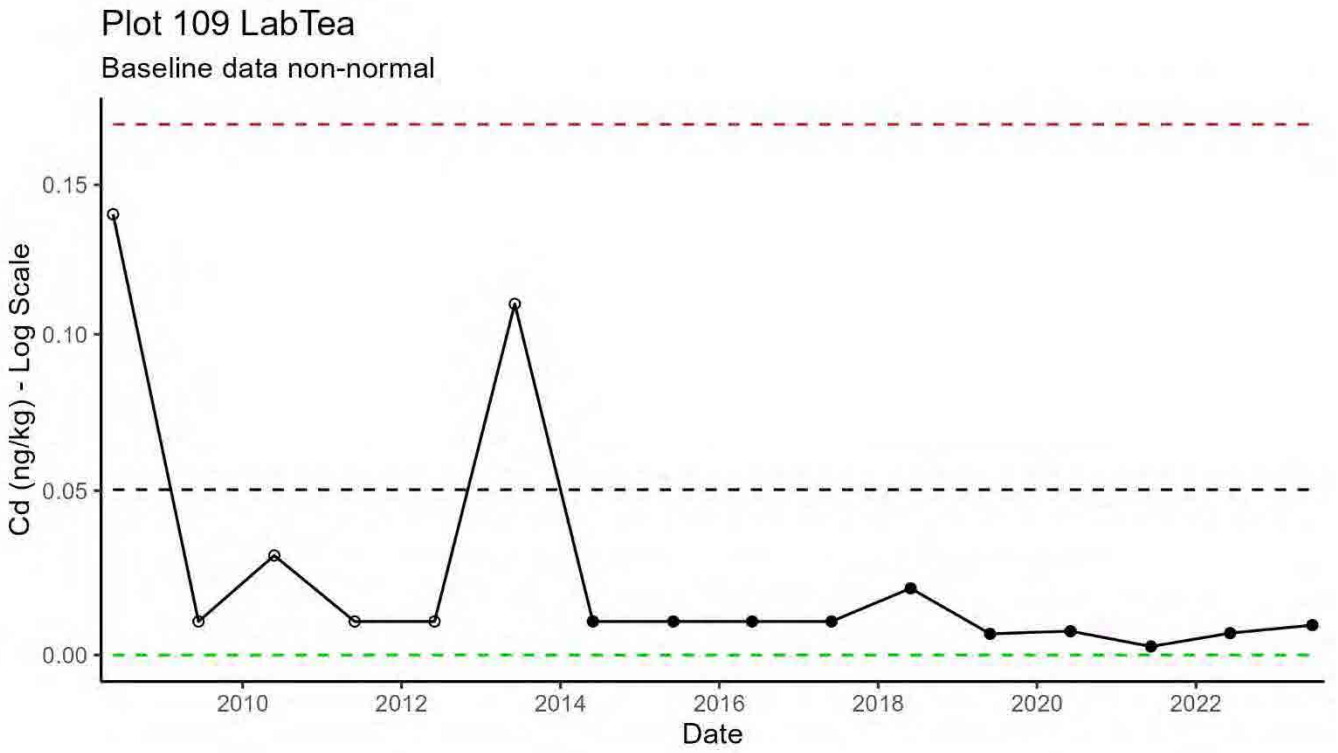
Figure F.25



- Post-baseline value
- Value used in baseline estimates
- Baseline mean
- Upper control limit
- Lower control limit

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Soil and Vegetation Monitoring Program

Cadmium

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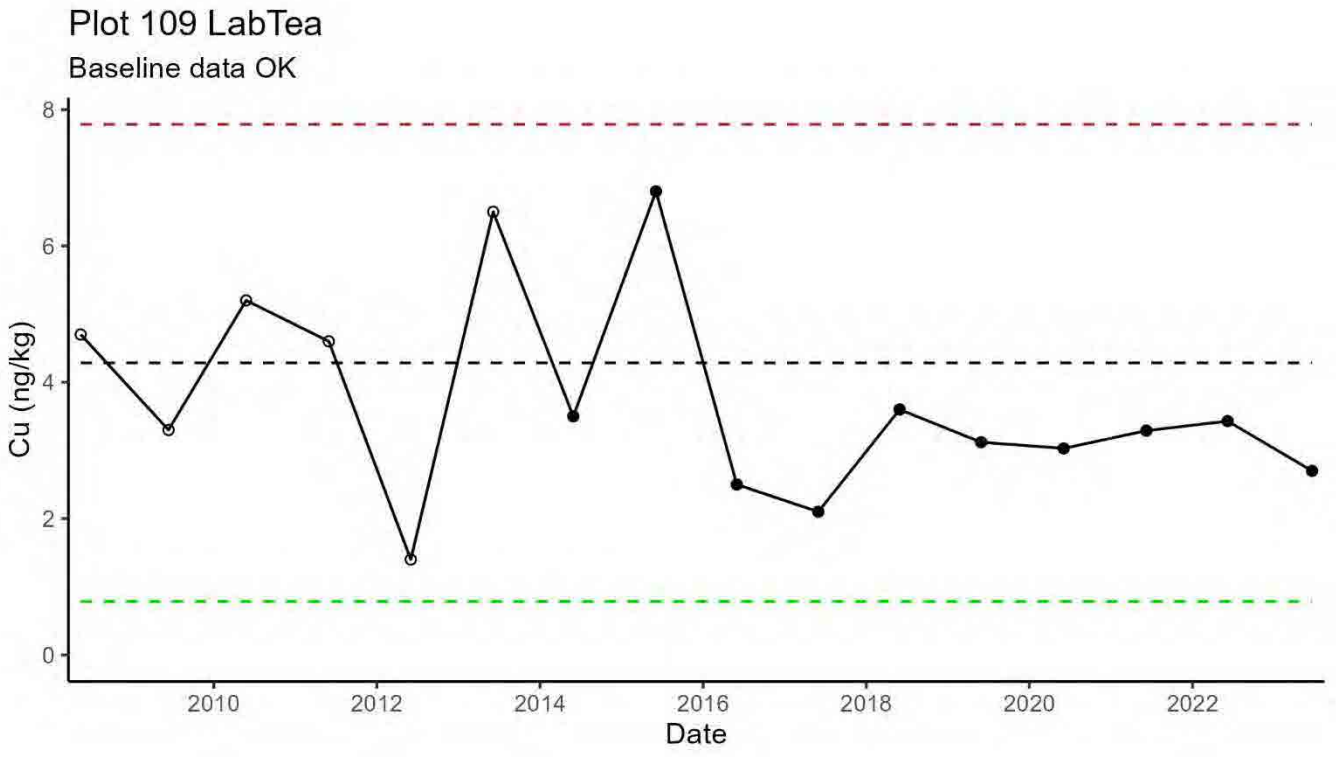
Figure F.26



- Post-baseline value
- Value used in baseline estimates
- Baseline mean
- Upper control limit
- Lower control limit

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VEOLIA – Swan Hills Treatment Centre
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Copper

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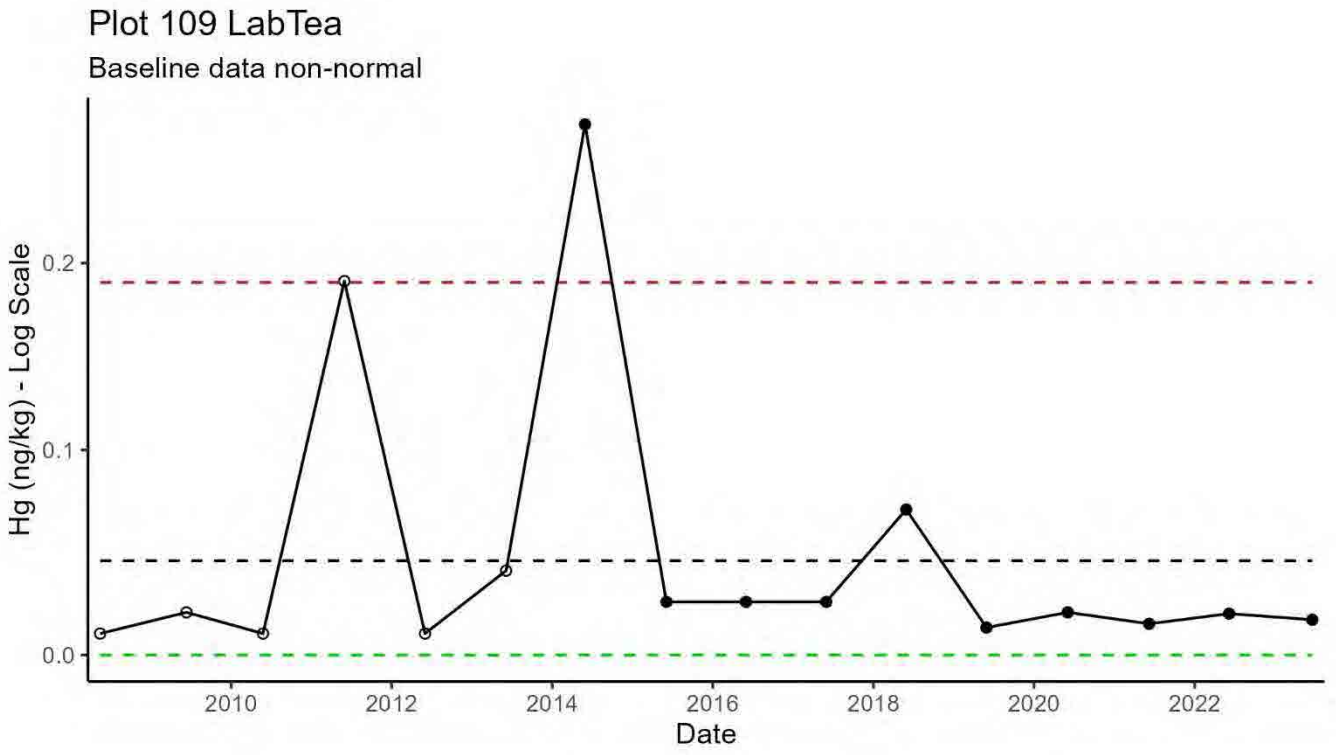
Figure F.27



Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

Matrix Solutions Inc.
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VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

Mercury

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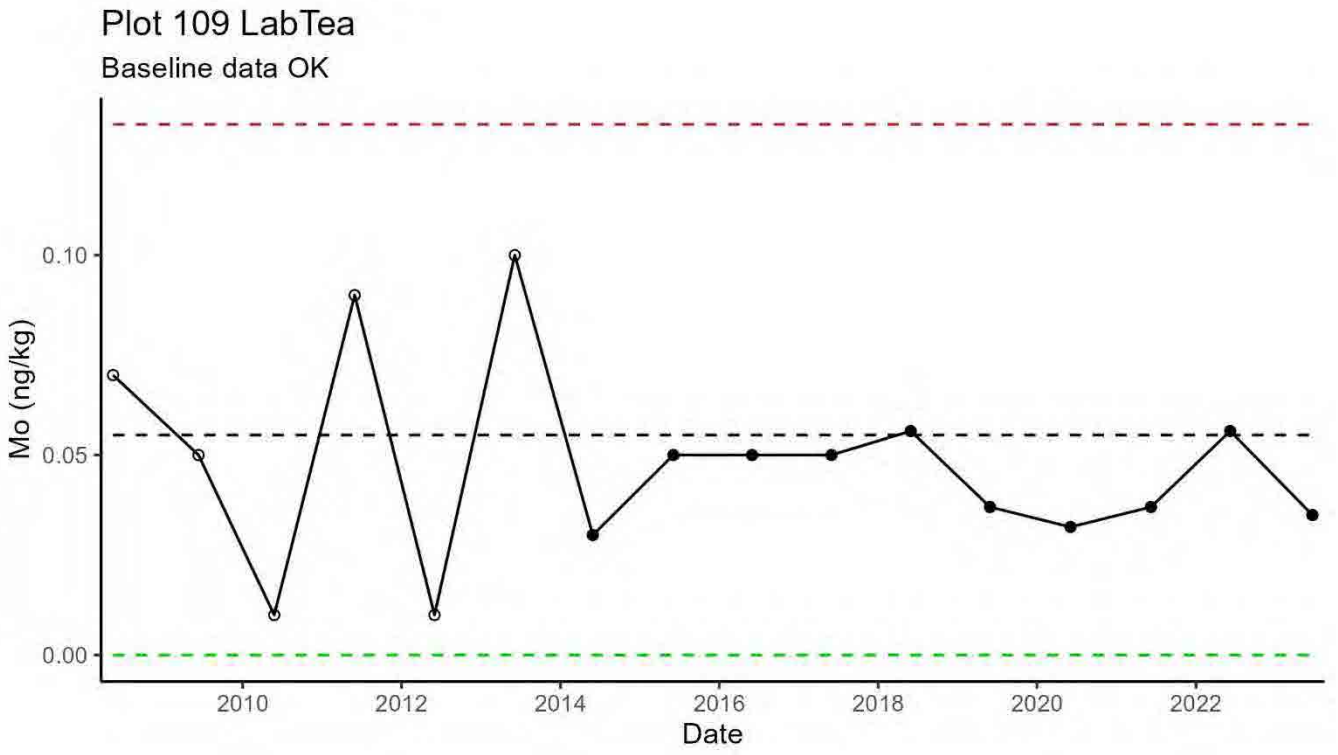
Figure **F.28**



Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

Matrix Solutions Inc.
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VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

Molybdenum

Date:	Project:	Technical:	Reviewer:	Drawn:
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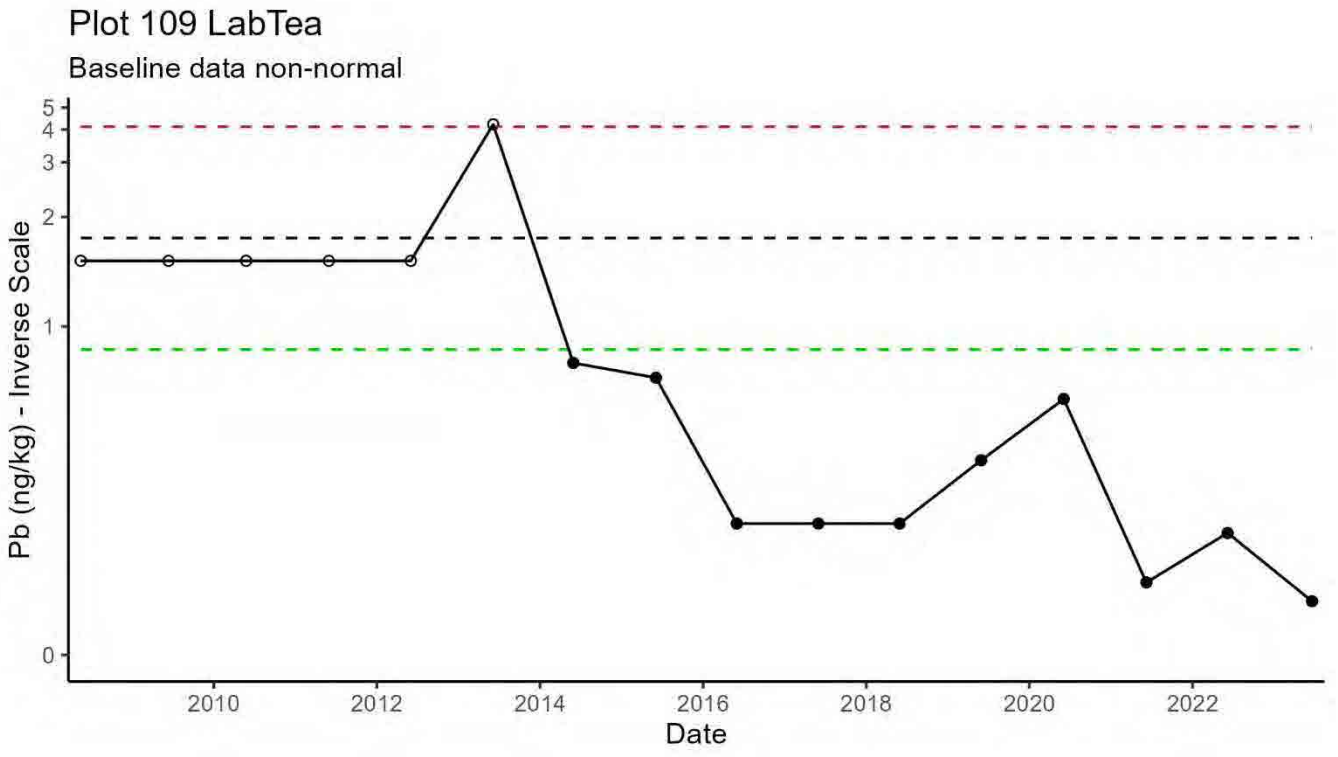
Figure F.29



- Post-baseline value
- Value used in baseline estimates
- Baseline mean
- Upper control limit
- Lower control limit

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VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

Lead

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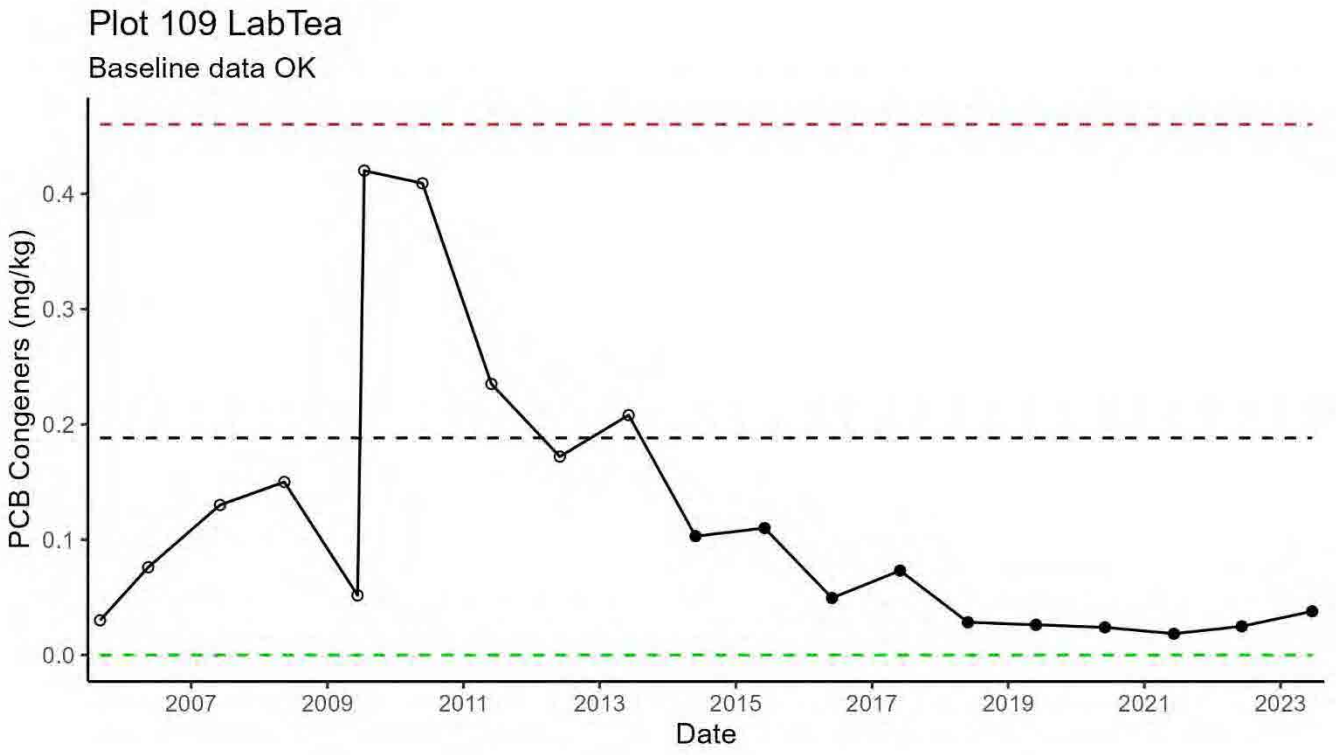
Figure F.30



Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

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VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

PCB Congeners

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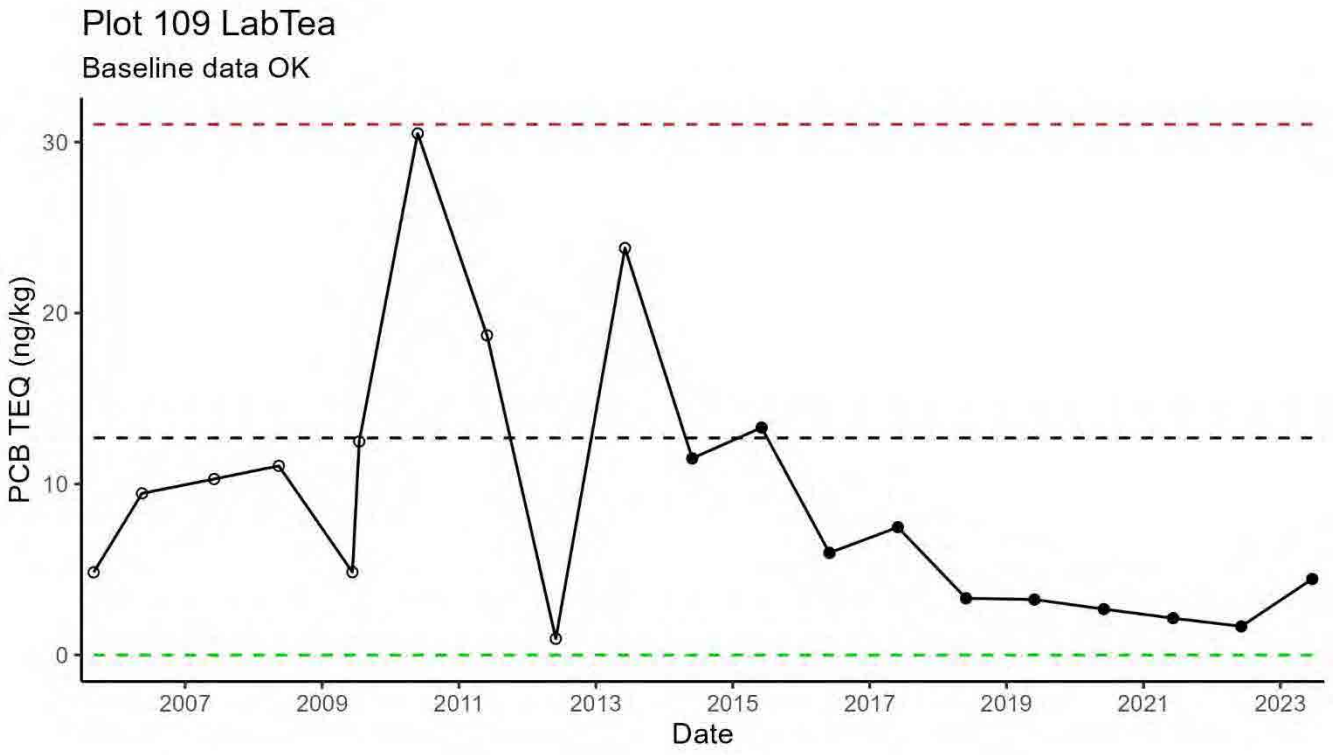
Figure F.31



- Post-baseline value
- Value used in baseline estimates
- Baseline mean
- Upper control limit
- Lower control limit

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VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

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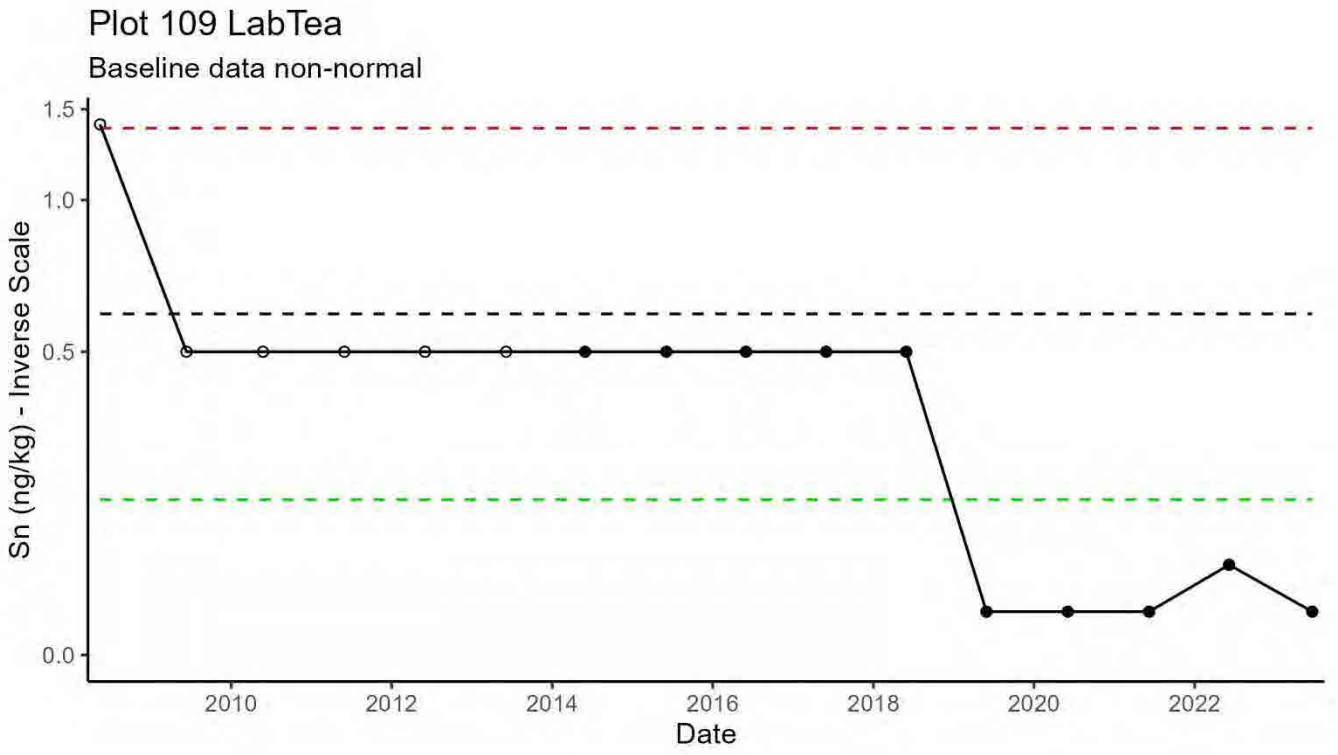
Figure F.32



- Post-baseline value
- Value used in baseline estimates
- Baseline mean
- Upper control limit
- Lower control limit

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Soil and Vegetation Monitoring Program

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Date:	Project:	Technical:	Reviewer:	Drawn:
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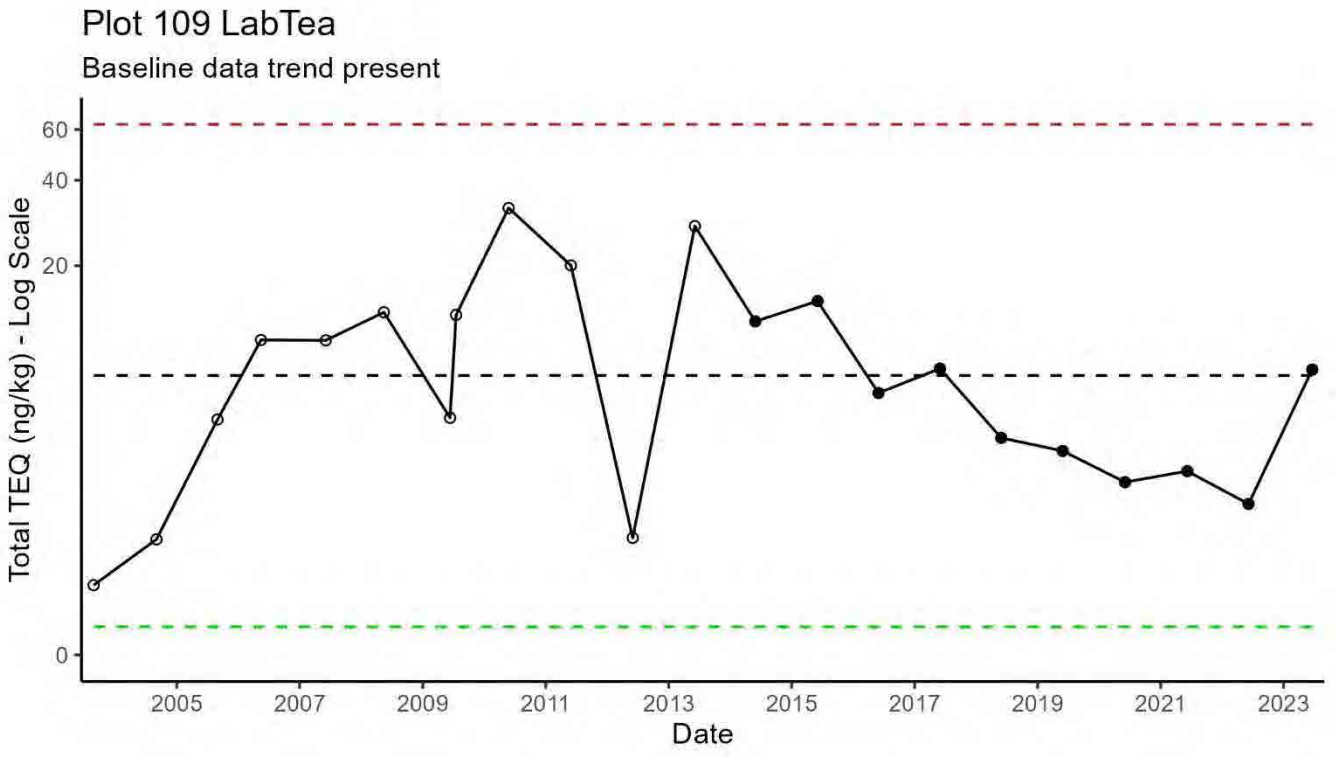
Figure F.33



Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

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VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

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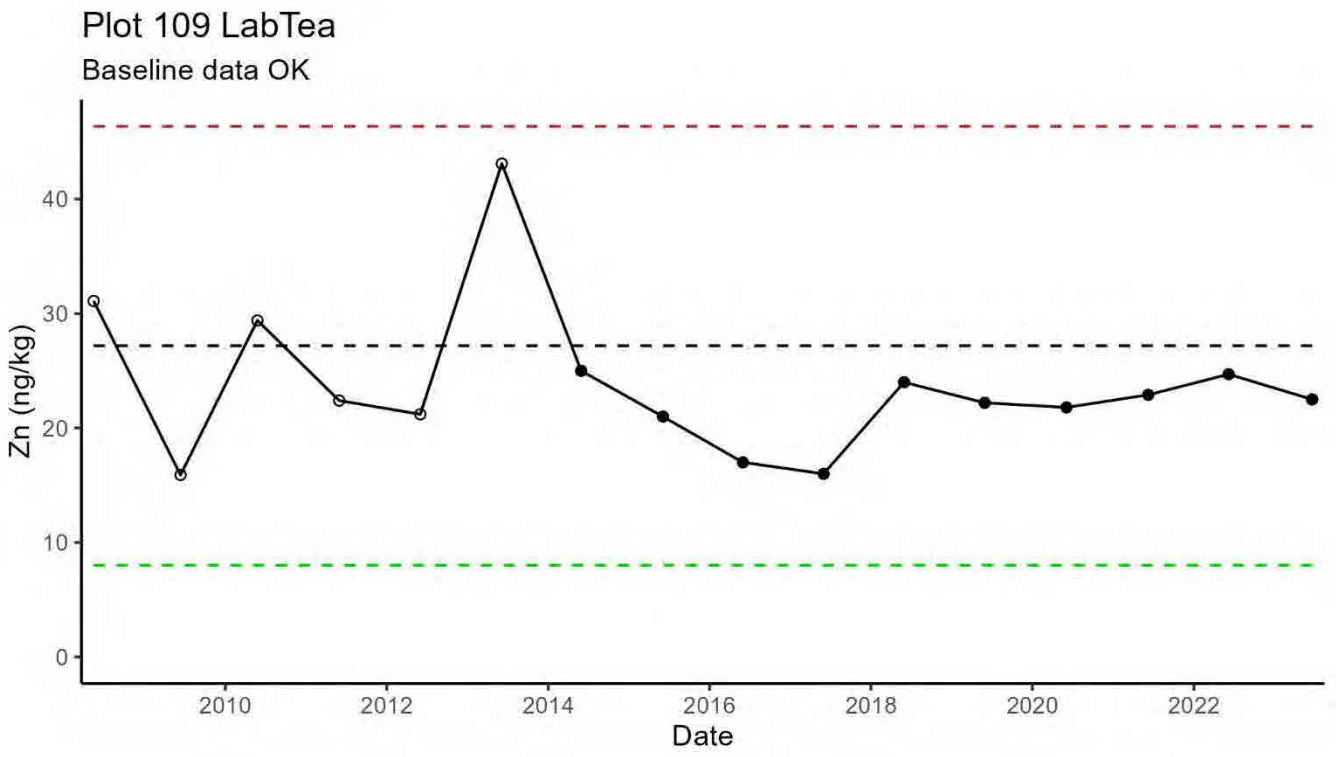
Figure F.34



Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

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VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

Zinc

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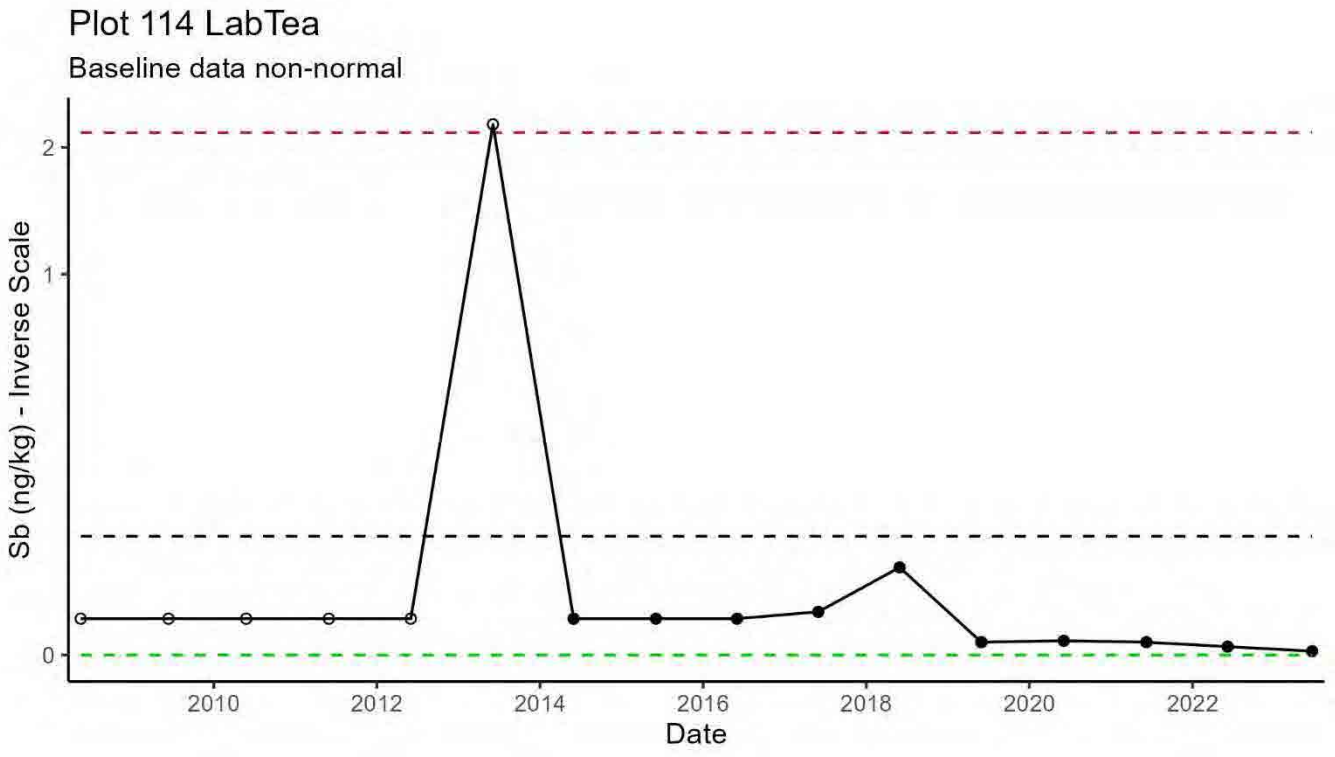
Figure **F.35**

APPENDIX F
Plot 114 – Control Charts



Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

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VEOLIA – Swan Hills Treatment Centre
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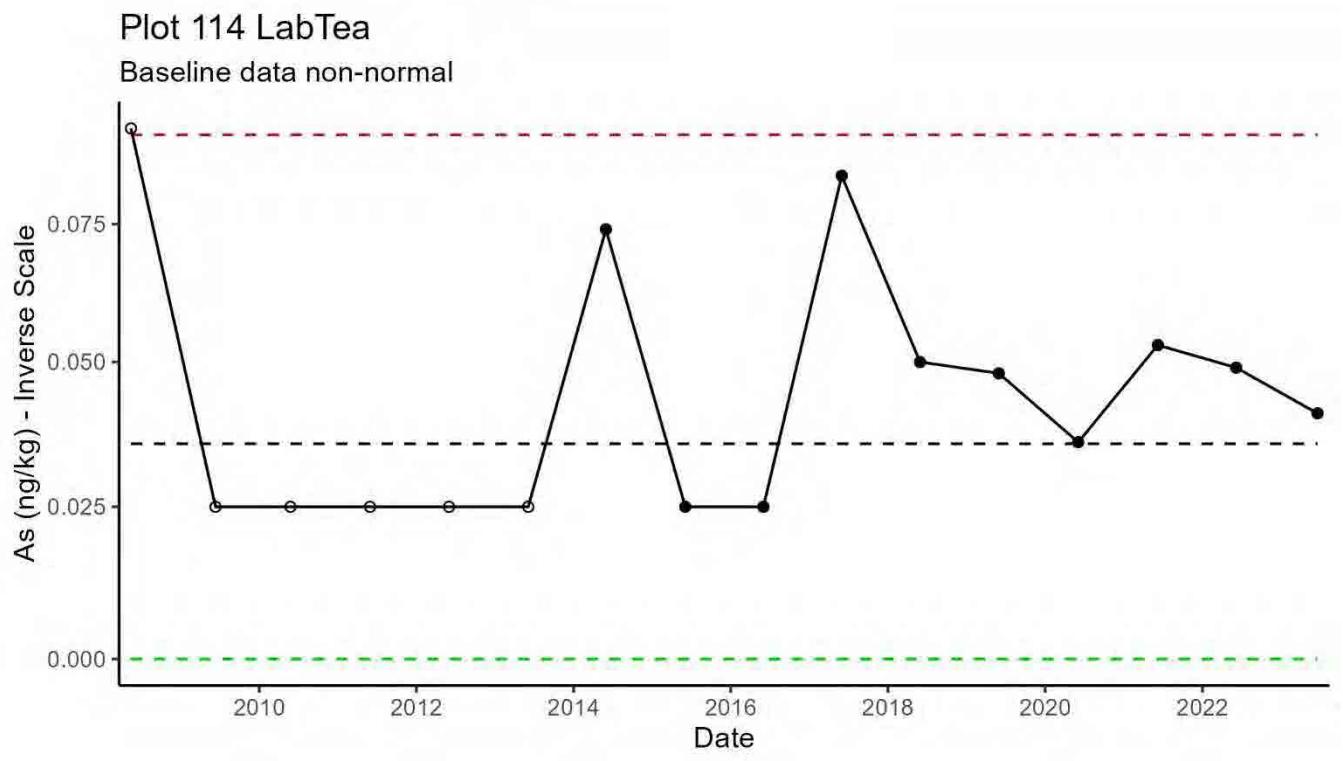
Figure F.36



Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

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VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

Arsenic

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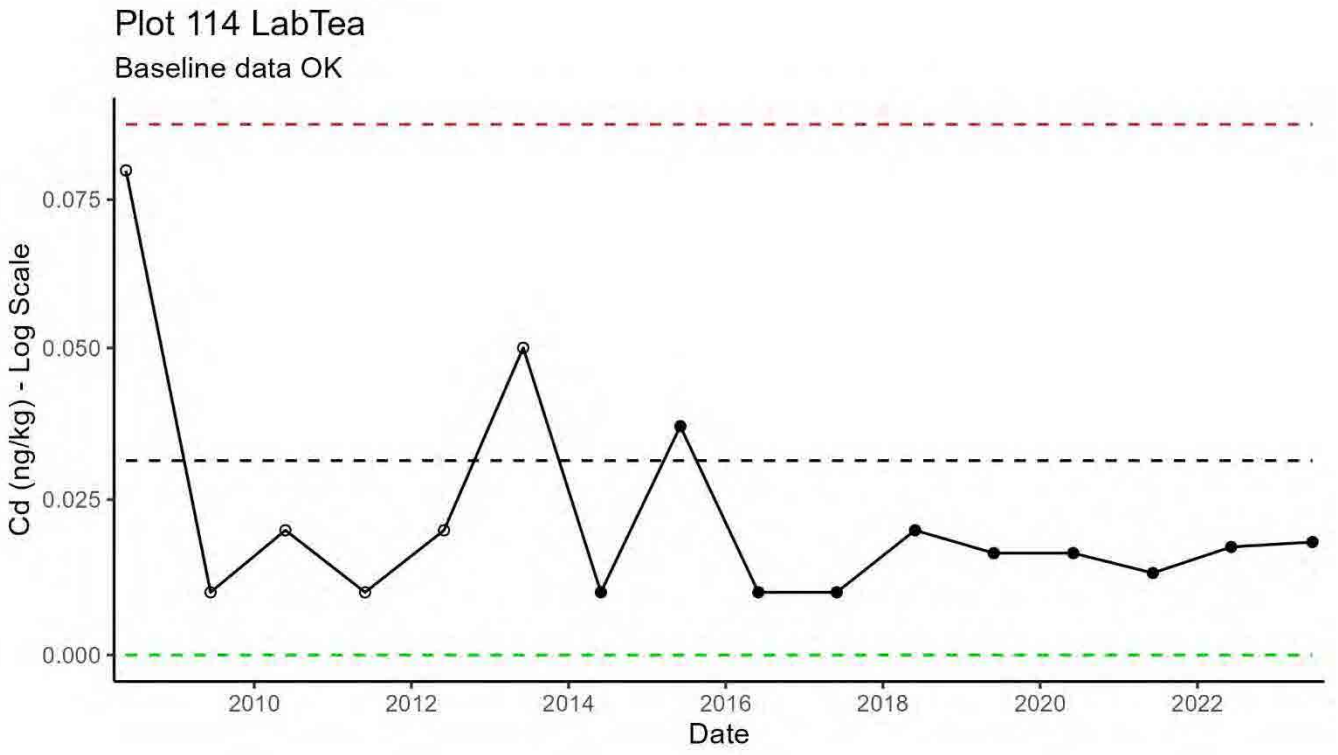
Figure **F.37**



- Post-baseline value
- Value used in baseline estimates
- Baseline mean
- Upper control limit
- Lower control limit

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VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

Cadmium

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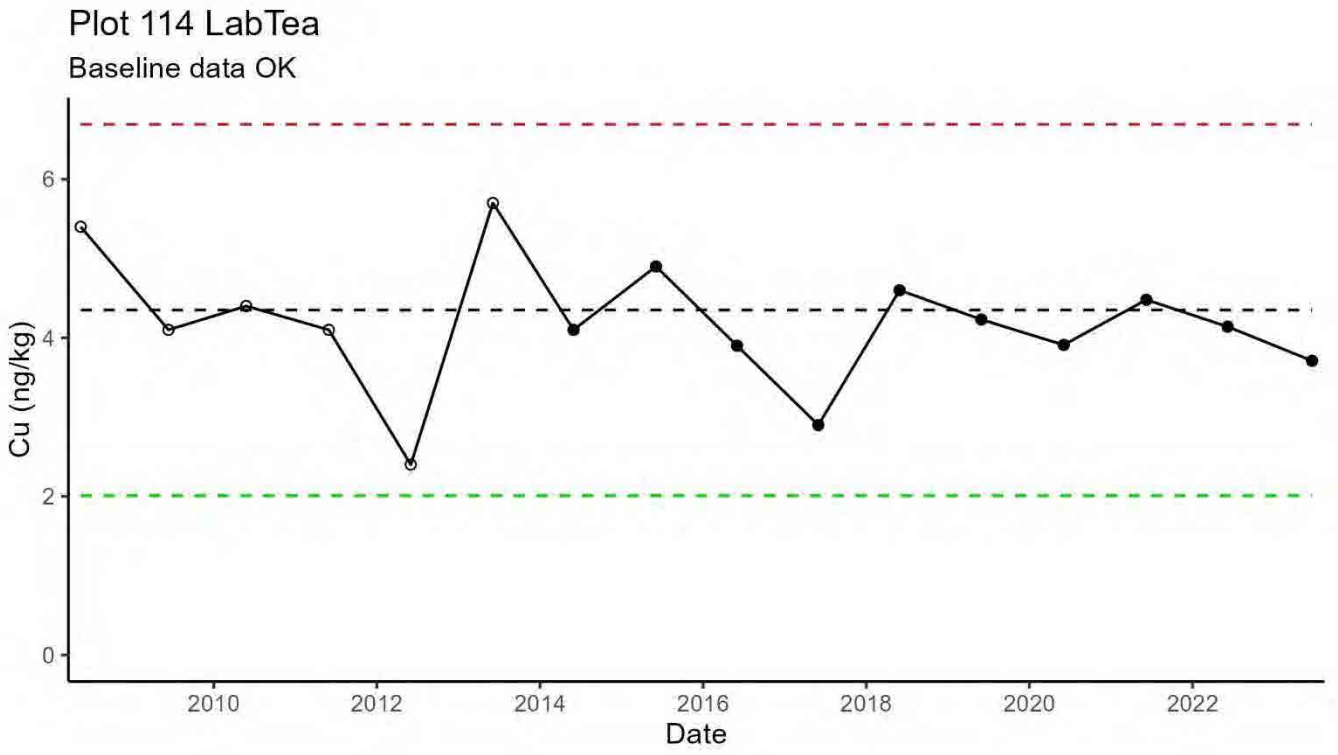
Figure F.38



Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

Copper

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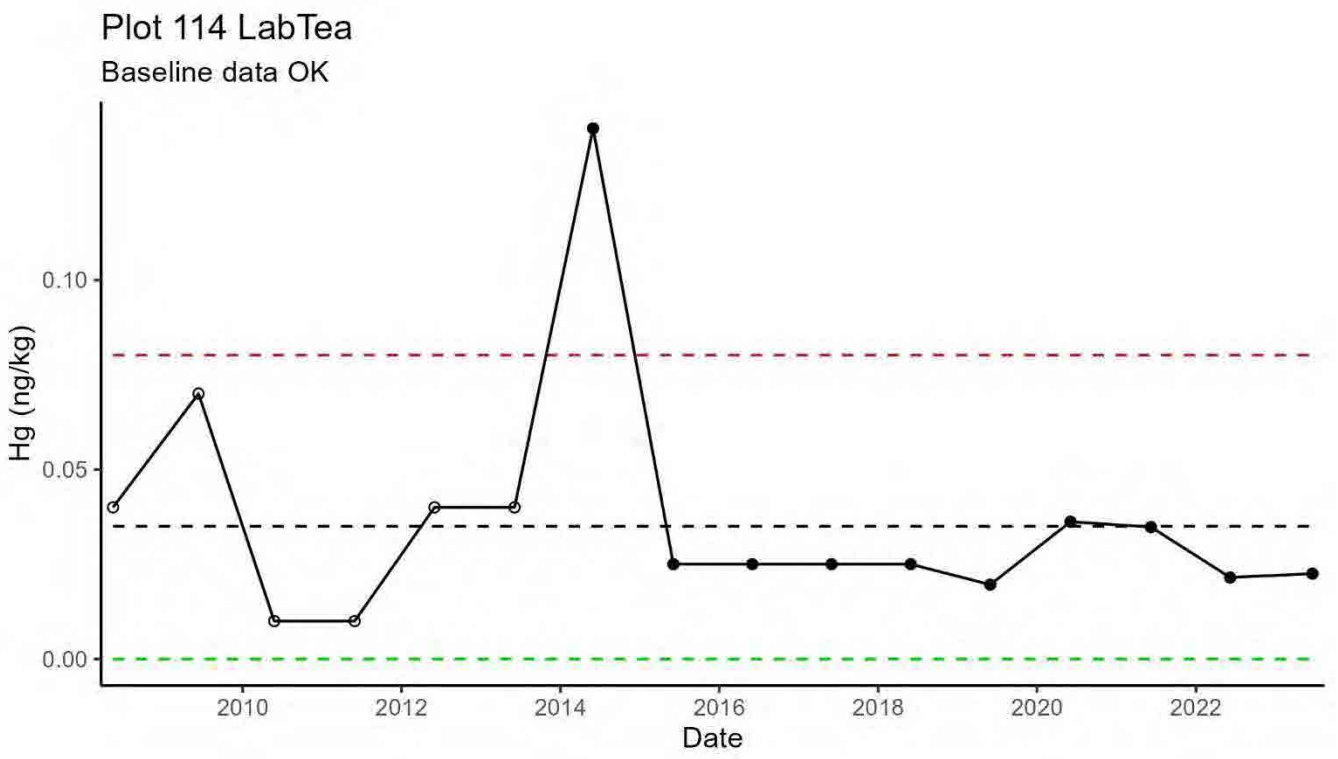
Figure F.39



- Post-baseline value
- Value used in baseline estimates
- Baseline mean
- Upper control limit
- Lower control limit

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

Mercury

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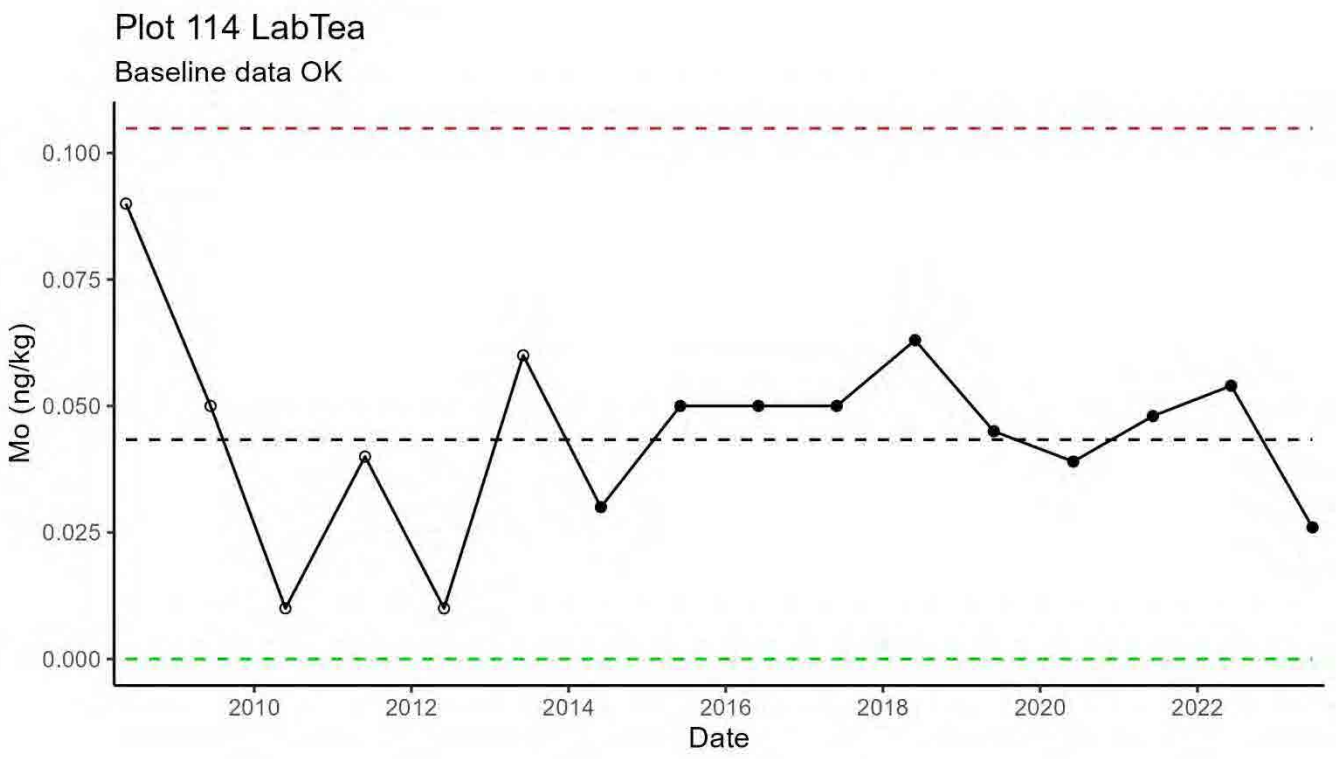
Figure F.40



Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

Molybdenum

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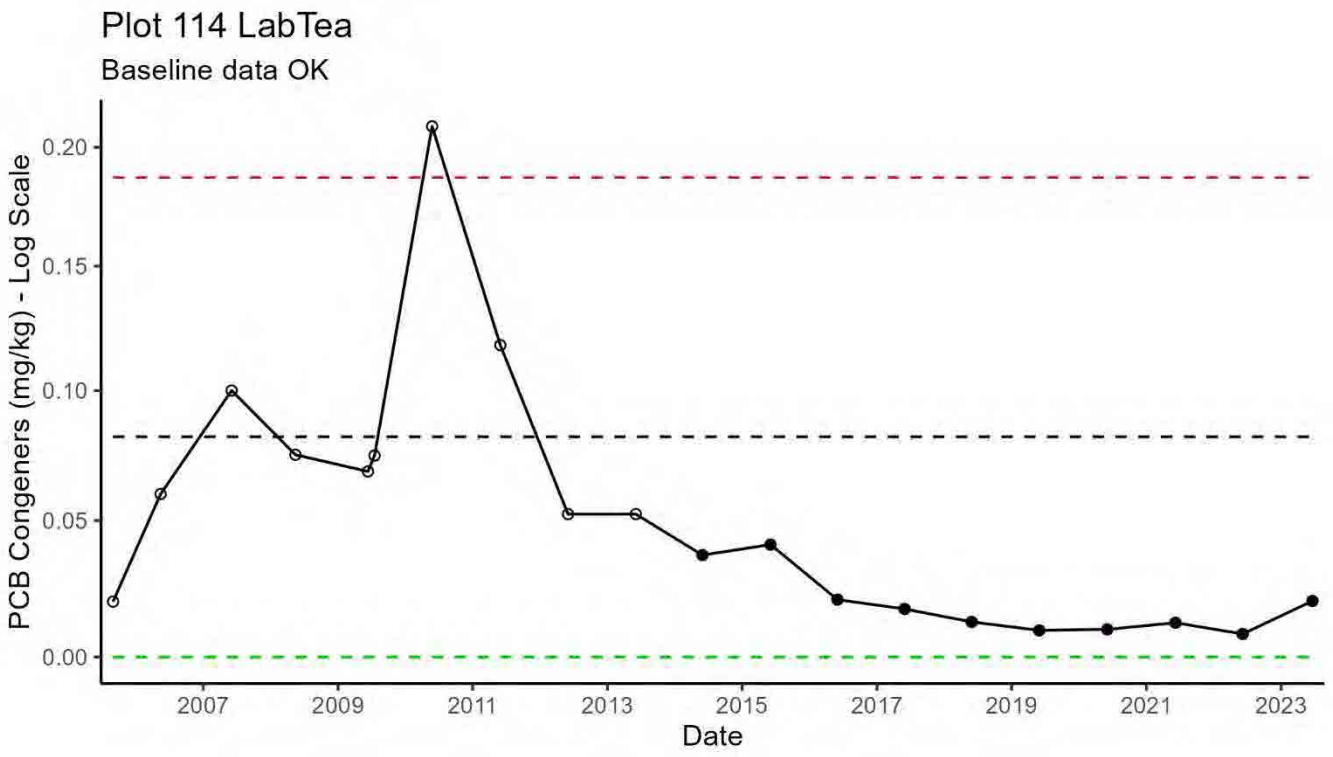
Figure F.41



- Post-baseline value
- Value used in baseline estimates
- Baseline mean
- Upper control limit
- Lower control limit

Matrix Solutions Inc.
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VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

PCB Congeners

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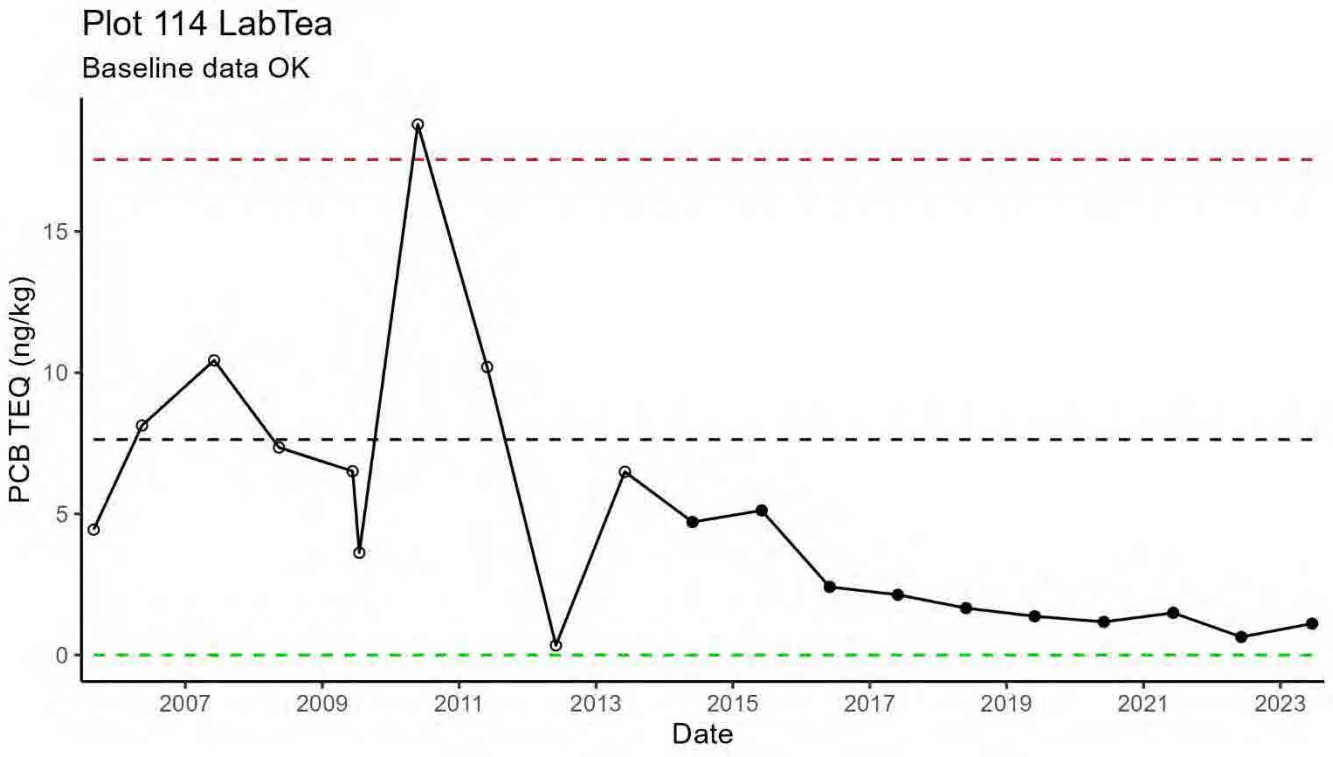
Figure F.42



Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

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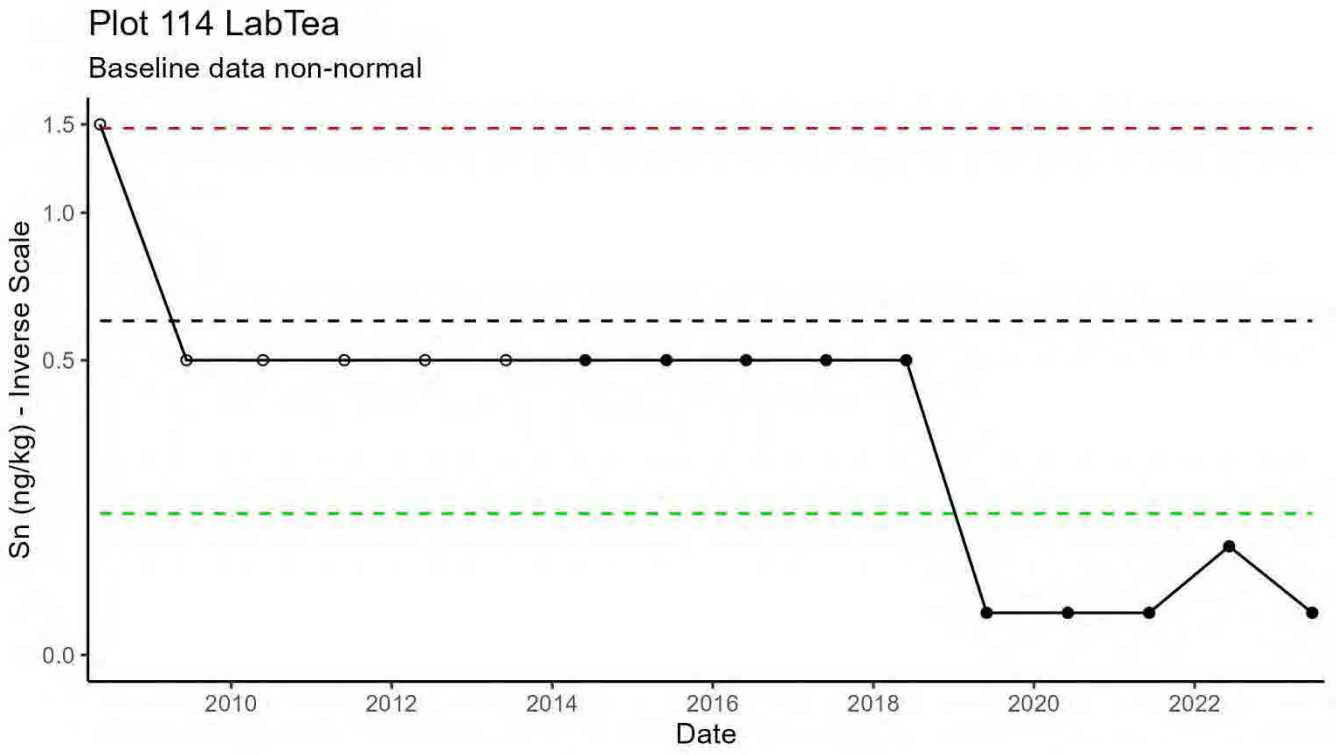
Figure F.43



Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

Matrix Solutions Inc.
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VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

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Date:	Project:	Technical:	Reviewer:	Drawn:
March 21, 2024	15867-503	C. Ayer	L. Oiffer	J. Rich

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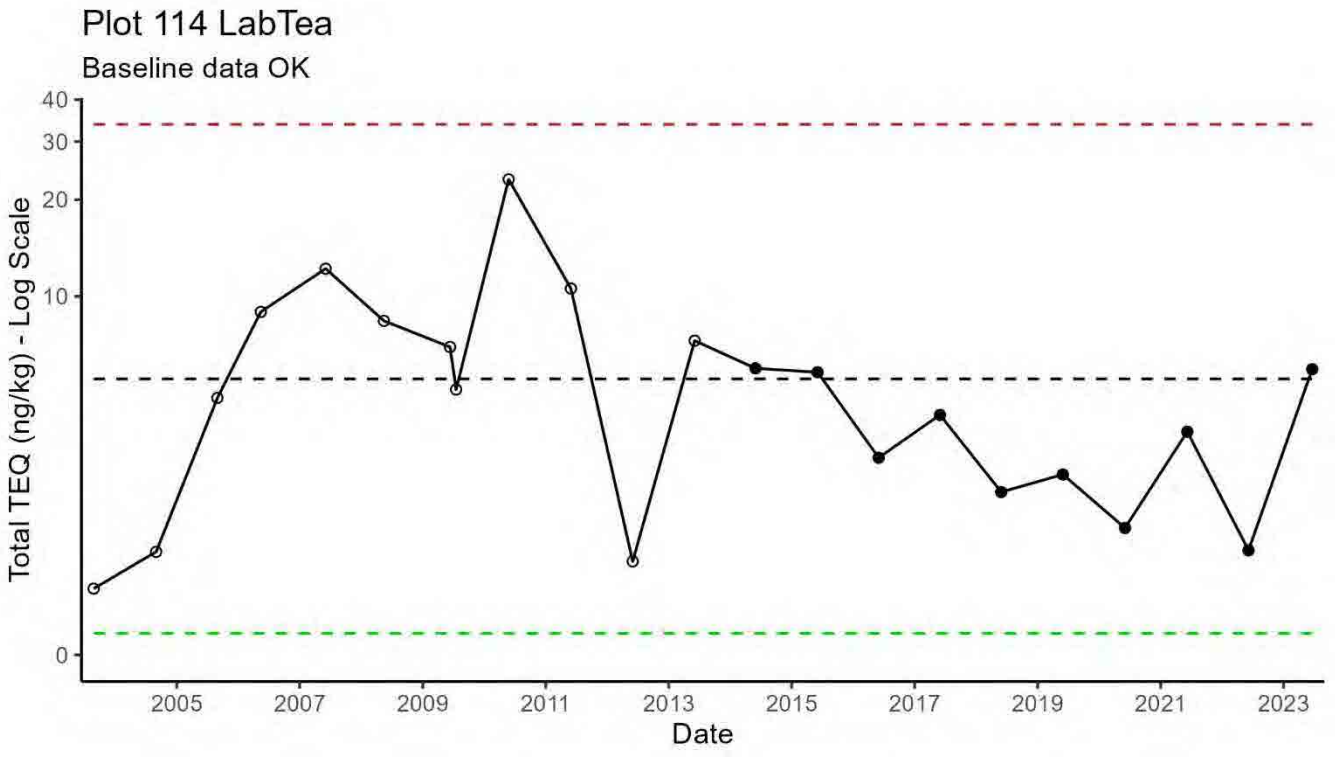
Figure F.44



Post-baseline value
Value used in baseline estimates
Baseline mean
Upper control limit
Lower control limit

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

Total TEQ

Date:	Project:	Technical:	Reviewer:	Drawn:
March 21, 2024	15867-503	C. Ayer	L. Oiffer	J. Rich

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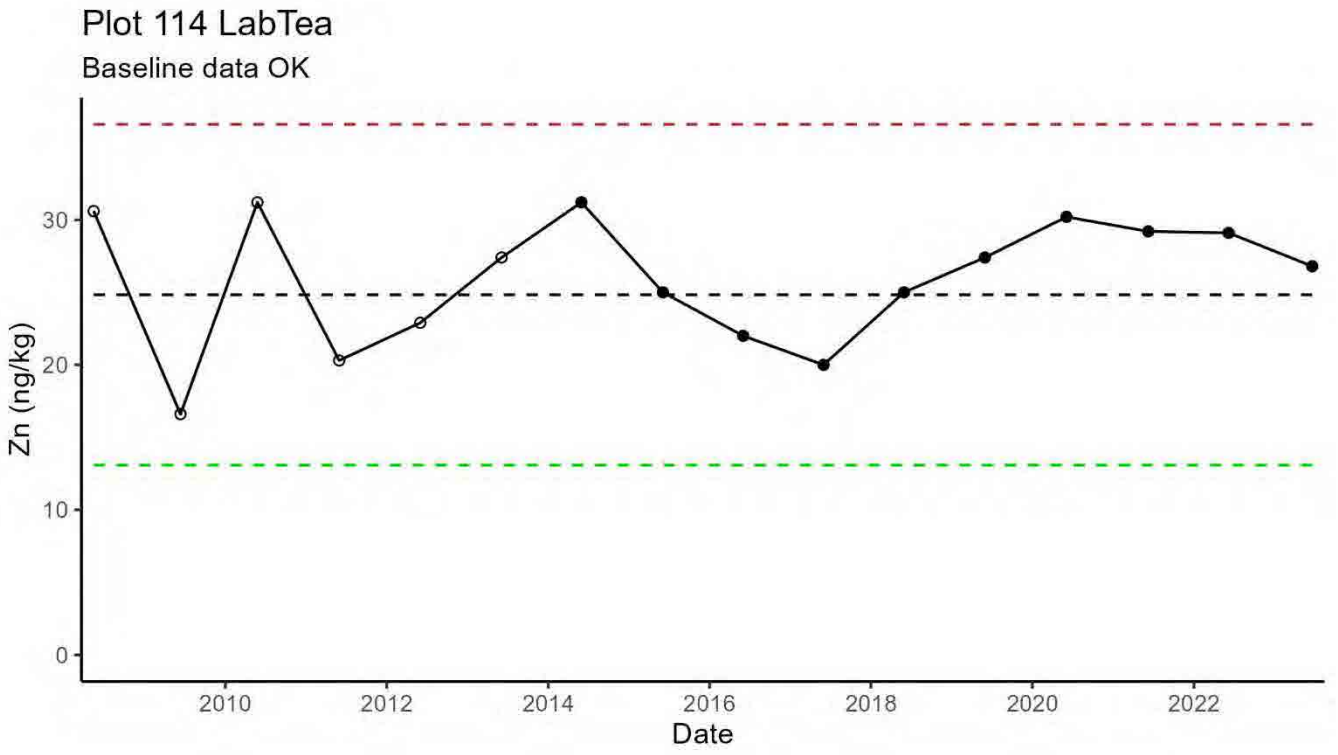
Figure F.45



- Post-baseline value
- Value used in baseline estimates
- Baseline mean
- Upper control limit
- Lower control limit

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

VEOLIA – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

Zinc

Date:	Project:	Technical:	Reviewer:	Drawn:
March 21, 2024	15867-503	C. Ayer	L. Oiffer	J. Rich

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Figure **F.46**

APPENDIX G
Historical Inorganic Data

TABLE G1

Historical Live Moss Quality Results - Metals

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	MSI Sample Number	Al mg/kg	Sb mg/kg	As mg/kg	Ba mg/kg	Be mg/kg	Bi mg/kg	B mg/kg	Cd mg/kg	Cr mg/kg	Co mg/kg	Cu mg/kg	Fe mg/kg	Pb mg/kg	Li mg/kg	Mn mg/kg	Hg mg/kg	Mo mg/kg	Ni mg/kg	Se mg/kg	Si mg/kg	Ag mg/kg	Sr mg/kg	S mg/kg	Tl mg/kg	Sn mg/kg	Ti mg/kg	U mg/kg	V mg/kg	Zn mg/kg	Zr mg/kg
Plot 4	15-May-08	15867080515001	2190	0.4	0.502	45.1	<0.5	---	4	0.68	3.8	<1.0	18	941	16.2	0.6	279	0.92	0.45	2.8	<1	170	<0.3	9.1	842	0.07	1.8	83	0.07	3.2	58.9	2.2
Plot 4	12-Jun-09	15867090612013	1990	0.4	0.408	40.6	<0.5	---	4	0.73	5	<1.0	18.9	1280	18	0.7	410	0.39	0.51	2.7	<1	9740	<0.3	9.9	1230	0.09	1.4	111	0.09	2.7	37.7	2.1
Plot 4	25-May-10	15867100525028	1860	0.5	0.319	55.4	<0.5	---	7	1.17	5	<1.0	23.5	1320	20.9	0.7	529	0.41	0.45	3.5	<1	10100	<0.3	11.7	1740	0.08	1.3	111	0.1	3.2	77.2	<0.1
Plot 4	31-May-11	15867110531041	2190	0.3	0.309	54	<0.5	---	7	0.44	4.4	<1.0	13.4	1300	9.5	0.7	671	0.37	0.37	2.7	<1	6330	<0.3	12.4	963	0.09	<1.0	97	0.09	2.3	65.4	3.5
Plot 4	01-Jun-12	15867120601054	2960	<0.1	0.609	68.6	<0.5	---	<2	0.48	4	<1.0	14.7	1690	11.8	<0.4	546	0.27	<0.02	3.3	<1	6340	<0.3	16	778	<0.02	<1.0	151	0.12	4	67.7	4.8
Plot 4	05-Jun-13	15867130605067	2320	3.1	0.354	47.4	<0.5	---	13	0.61	3.4	<1.0	12.9	1230	11.5	1.1	495	0.3	0.36	2.4	<1	6260	<0.3	10.8	844	0.12	<1.0	85	0.08	2.7	62.3	10.5
Plot 4	29-May-14	15867140529081	1720	0.3	0.397	58.6	<0.5	---	<2	0.4	4.4	<1.0	13.6	1230	12.9	<0.4	570	0.72	0.37	2.7	<1	5010	<0.3	13.3	880	0.06	1.2	107	0.08	3.2	68.1	<0.1
Plot 4	03-Jun-15	15867150603006	810	0.3	0.38	37	<0.40	---	5.5	0.58	1.5	<0.50	17	1000	11	<0.80	670	0.16	0.52	2	<0.50	---	<0.20	9.3	920	0.043	<1.0	14	0.053	1.4	70	0.91
Plot 4	31-May-16	15867160531005	420	0.19	0.29	33	<0.40	---	7	0.51	<1.0	<0.50	14	570	9.3	<0.80	670	0.25	0.49	1.6	<0.50	---	<0.20	8.4	830	0.027	<1.0	9.7	<0.040	<1.0	76	0.45
Plot 4	31-May-17	15867170531008	700	0.32	0.54	37	<0.40	---	6.1	0.66	1.7	0.53	12	1000	13	<0.80	600	0.24	0.63	2.4	<0.50	---	<0.20	9	980	0.038	1.6	17	0.056	1.6	78	1.3
Plot 4	29-May-18	15867180529003	800	0.44	0.72	47	<0.40	---	6.7	0.49	3.2	0.66	14	1300	16	<3.1	800	0.46	0.89	3.5	<0.50	---	0.23	10	1100	<0.052	1.3	10	<0.080	2.5	92	<1.0
Plot 4	31-May-19	15867190531030	843	0.267	0.69	41.7	0.03	0.284	7	0.408	1.86	0.618	10.4	1040	12.6	<0.50	701	0.319	0.582	2.41	0.103	---	0.105	9.59	1100	0.0377	1.02	21.5	0.053	2.01	93.8	0.38
Plot 4	03-Jun-20	15867200603008	965	0.304	0.785	49.3	0.036	0.351	7.3	0.596	2.63	0.653	13	1710	14.8	0.5	726	0.443	0.644	2.63	0.119	---	0.124	9.78	1100	0.0436	1.29	25.6	0.0625	2.45	101	0.55
Plot 4	08-Jun-22	15867220608011	825	0.275	0.696	41.2	0.032	0.344	8.2	0.395	1.99	0.55	9.92	1120	11.1	<0.50	713	0.498	0.493	2.18	0.101	---	0.0966	9.22	1020	0.0447	1.08	21.7	0.0611	1.94	92.6	0.32
Plot 11	15-May-08	15867080515002	990	0.1	0.222	59	<0.5	---	4	0.18	1.3	<1.0	5.2	474	<3.0	<0.4	734	0.52	0.16	<2.0	<1	171	<0.3	7.7	850	0.02	<1.0	40	<0.04	1.6	64.5	0.9
Plot 11	12-Jun-09	15867090612014	1240	0.1	0.21	36	<0.5	---	3	0.16	1.9	<1.0	6.4	761	3.8	0.5	700	0.19	0.18	<2.0	<1	6220	<0.3	7.3	1430	0.03	<1.0	69	0.07	2	34.3	0.5
Plot 11	26-May-10	15867100526029	1490	<0.1	0.169	48.8	<0.5	---	4	0.21	2.3	<1.0	8.5	991	5.6	0.5	735	0.21	0.08	2	<1	8430	<0.3	9.8	1500	<0.02	<1.0	87	0.07	2.5	62.5	<0.1
Plot 11	31-May-11	15867110531042	1320	0.1	0.08	41.4	<0.5	---	5	0.14	2.6	<1.0	5.7	749	<3.0	0.5	1360	0.55	0.24	<2.0	<1	3130	<0.3	6.7	868	0.04	<1.0	59	0.06	1.2	41.3	4.1
Plot 11	01-Jun-12	15867120601055	4120	<0.1	0.543	73	<0.5	---	<2	0.17	3.4	<1.0	4	1780	<3.0	0.7	800	0.21	<0.02	3	<1	8840	<0.3	15.2	795	<0.02	<1.0	170	0.11	5.9	52.2	3.8
Plot 11	05-Jun-13	15867130605068	2410	2.8	0.327	56.9	<0.5	---	12	0.25	3.1	<1.0	9.3	1160	4.5	1.3	1300	0.2	0.27	2.3	<1	7100	<0.3	12.2	952	0.08	<1.0	85	0.08	2.9	61.3	8.3
Plot 11	31-May-14	15867140531082	980	<0.1	0.224	34.9	<0.5	---	<2	0.1	2.5	<1.0	5.6	702	3.3	<0.4	837	0.49	0.14	<2.0	<1	2800	<0.3	7.8	814	0.03	<1.0	56	<0.04	1.9	47.6	<0.1
Plot 11	03-Jun-15	15867150603003	410	0.13	0.19	40	<0.40	---	3.2	0.13	<1.0	<0.50	22	630	2.6	<0.80	800	0.12	0.17	1.1	<0.50	---	<0.20	6.2	840	<0.020	<1.0	8.8	0.04	<1.0	52	0.8
Plot 11	31-May-16	15867160531004	190	<0.10	0.12	39	<0.40	---	5.7	0.12	<1.0	<0.50	6.1	310	1.9	<0.80	990	0.13	0.13	<1.0	<0.50	---	<0.20	9	710	<0.020	<1.0	4.3	<0.040	<1.0	44	0.21
Plot 11	01-Jun-17	15867170601010	260	<0.12	0.18	33	<0.40	---	5.3	0.14	<1.0	<0.50	8.5	380	2	<0.80	800	0.056	0.13	1	<0.50	---	<0.20	8.3	790	<0.026	<1.0	5.8	<0.040	<1.0	44	0.64
Plot 11	31-May-18	15867180531012	260	<0.26	0.24	41	<0.40	---	<3.7	0.11	1.8	<0.50	6.3	450	2.9	<3.1	880	0.22	0.32	2	<0.50	---	<0.20	7.6	810	<0.052	<1.0	6.9	<0.080	<1.0	51	<1.0
Plot 11	01-Jun-19	15867190601032	477	0.067	0.269	36.7	0.021	0.055	3.7	0.121	0.78	0.309	4.5	630	2.87	<0.50	911	0.185	0.172	1.34	0.104	---	0.047	7.85	1060	0.0258	0.43	12.2	0.0388	1.24	54.8	0.29
Plot 11	02-Jun-20	15867200602004	622	0.088	0.272	33.9	0.018	0.058	4.4	0.15	0.966	0.31	4.93	683	2.73	<0.50	931	0.161	0.187	1.54	0.096	---	0.0474	5.29	920	0.0237	0.25	13.3	0.0342	1.44	46.7	0.27
Plot 11	08-Jun-22	15867220608012	357	0.059	0.224	49.9	0.014	0.039	6.3	0.102	0.677	0.246	4.73	544	2.33	<0.50	1200	0.153	0.156	1.13	0.076	---	0.0316	10.6	940	0.0197	0.24	7.93	0.0289	0.92	66.1	<0.20
Plot 70	15-May-08	15867080515003	11900	0.2	1.3	179	<0.5	---	5	0.23	10.8	2.2	6.9	4660	7.1	3.4	282	0.55	0.3	5.2	<1	131	<0.3	33.4	796	0.11	<1.0	419	0.36	15.5	43.8	11.3
Plot 70a	12-Jun-09	15867090612015	5700	<0.1	0.579	99.7	<0.5	---	3	0.11	7.3	1.2	4.7	3180	3.7	2	465	0.08	0.24	3.4	<1	44600	<0.3	17.7	1170	0.06	<1.0	398	0.29	8.2	22.2	9.4
Plot 70b	12-Jun-09	15867090612016	1970	<0.1	0.27	47.5	<0.5	---	3	0.15	3	<1.0	3.3	1230	4.2	0.7	273	0.12	0.17	2.2	<1	8930	<0.3	10.7	1170	0.03	<1.0	117	0.11	3.2	17.3	1.9
Plot 70c	12-Jun-09	15867090612017	2610	<0.1	0.284	45.5	<0.5	---	3	0.11	3.9	<1.0	3.6	1530	<3.0	0.9	321	0.08	0.17	2.4	<1	15300	<0.3	11.3	1090	0.03	<1.0	172	0.16	4	18.4	3.8
Plot 70	25-May-10	15867100525030	2660	<0.1	0.28	123	<0.5	---	7	0.33	4.3	<1.0	5	1590	3.9	0.9	1540	0.13	0.1	3.8	<1	11800	<0.3	19.4	1780	0.09	<1.0	130	0.1	4.2	49.5	<0.1
Plot 70	31-May-11	15867110531043	3040	<0.1	0.311	67.1	<0.5	---	4	0.19	5.1	<1.0	4.9	1720	5.1	1.1	542	0.1	0.25	2.6	<1	5480	<0.3	13.1	991	0.08	<1.0	127	0.12	3.7	39.6	4.5
Plot 70	01-Jun-12	15867120601056	2240	<0.1	0.238	55.3	<0.5	---	<2	0.17	1.3	<1.0	1.2	1040	<3.0	<0.4	739	0.08	<0.02	<2.0	<1	5440	<0.3	9.9	820	<0.02	<1.0	88	0.07	2.5	25.4	0.4
Plot 70	05-Jun-13	15867130605070	2260	2.5	0.195	71.3	<0.5	---	11	0.18	2.1	<1.0	5.1	1080	4	1.1	418	0.09	0.09	<2.0	<1	5290	<0.3	11.2	735	0.07	<1.0	70	0.08	2.2	35.1	6.4
Plot 70	31-May-14	15867140531083	3560	<0.1	0.543	97.8	<0.5	---	<2	0.15	4.2	<1.0	9.1	1990	9.2	<0.4	356	0.45	0.17	2.5	<1	8540	<0.3	18.2	787	0.1	<1.0	183	0.13	5.7	34.9	<0.1
Plot 70	04-Jun-15	15867150604015	1500	<0.10	0.43	54	<0.40	---	2.6	0.19	1.8	1.3	44	1800	1.9	<0.80	740	<0.050	0.14	2.5	<0.50	---	<0.20	7.7	840	0.021	<1.0	11	0.073	2.6	57	1.4
Plot 70	02-Jun-16	15867160602012	400	0.1	0.21	25	<0.40	---	4.1	0.065	<1.0	<0.50	6.3	590	1.7	<0.80	810	0.11	<0.10	1.4	<0.50	---	<0.20	4.4	750	0.021	<1.0	7.3	<0.040	1	40	0.71
Plot 70	01-Jun-17	15867170601012	470	<0.12	0.22	47	<0.40	---	4	0.15	<1.0	<0.50	4.3	710	1.8	<0.80	690	0.059	<0.10	1.4	<0.50	---	<0.20	5.6	870	<0.026	<1.0	8.5	<0.040	1.1	32	0.76
Plot 70	31-May-18	15867180531011	680	<0.26	0.38	54	<0.40	---	<3.7	0.23	2	0.5	5.3	950	2.7	<3.1	1000	0.18	0.24	2.6	<0.50	---	<0.20	7.6	990	<0.052	<1.0	9.1	<0.080	1.6	59	<1.0
Plot 70	01-Jun-19	15867190601041	766	0.041	0.29	59.2	0.027	<0.010	2.8	0.143	1	0.493	4.01	922	1.96	<0.50	989	0.104	0.113	1.83	0.078	---	0.0482	7.32	1060	0.0257	0.13	13.7	0.0426	1.71	45.9	0.23
Plot 70	02-Jun-20	15867200602005	631	0.033	0.205	67.6	0.018	0.011	4.4	0.24	0.789	0.402	4.48	642	1.33	<0.50	809	0.0965	0.105	1.36	0.068	---	0.0445	7.19	980	0.0226	<0.10	10.8	0.0314	1.23	44.4	<0.20
Plot 70	07-Jun-22	15867220607005	666	0.043	0.267	36.2	0.027	0.011	3.4	0.166	1.02	0.466	3.92	824	1.45	<0.50	816	0.107	0.124	1.5	0.068	---	0.0392	6.41	780	0.0213	0.27	12	0.0418	1.41	41.2	0.45
Plot 71	15-May-08	15867080515004	1560	<0.1	0.227	73.4	<0.5	---	5	0.09	1.8	<1.0	3.4	719	<3.0	0.5	703	0.46	0.12	<2.0	<1	161	<0.3	15.2	774	0.02	<1.0	60	0.05	2.4	54.2	1.4
Plot 71	12-Jun-09	15867090612018	2480	<0.1	0.292	82.1	<0.5	---	6	0.14	3	<1.0	4.9	1450	4.6	0.9	995	0.14	0.22	2.3	<1	13300	<0.3	20.4	1430	0.03	<1.0	143	0.15	4	41.8	2.8
Plot 71	25-May-10	15867100525031	1610	<0.1	0.159	115	<0.5	---	11	0.36	2.2	<1.0	6.1	947	<3.0	0.5	2310	0.06	0.05	2.2	<1	9320	<0.3	22.9	1690	<0.02	<1.0	83	0.08	2.5	97.8	<0.1
Plot 71	31-May-11	15867110531044	1430	<0.1	0.071	74	<0.5	---	6	0.08	1.7	<1.0	5.5	784	<3.0	0.5	867	0.08	0.15	<2.0	<1	5450	<0.3	23.4	1030	0.04	<1.0	59	0.06	1.1	44.8	2.2
Plot 71	01-Jun-12	15867120601057	1830	<0.1	0.168	83.8	<0.5	---	<2	0.07	1.1	<1.0	2.5	941	<3.0	<0.4	1070	0.09	<0.02	<2.0	<1	5610	<0.3	18.6	982	<0.02	<1.0	82	0.05	2.4	56.3	1.8
Plot 71	05-Jun-13	15867130605071	15900	2.4	8.27	253	<0.5	---	15	0.14	11	2.5	9.4	7930	8.6	14	466	0.08	0.29	5.1	<1	30500	<0.3	59.7	555	0.18	<1.0	456	1.13	26.2	47.1	19
Plot 71	31-May-14	15867140531084	1990	<0.1	0.339	83.9	<0.5	---	<2	0.09	3.3	<1.0	3.7	1170	3.8	<0.4	349	0.46	0.19	<2.0	<1	14500	<0.3	36.2	975	0.04	<1.0	112	0.08	3.8	27.7	<0.1
Plot 71	04-Jun-15	15867150604014	730	<0.10	0.27	65	<0.40	---	3.4	0.18	<1.0	0.52	12	1000	4.2	<0.80	720	0.059	0.29	1.5	<0.50	---	<0.20	26	1000	0.028	<1.0	10	0.064	1.5	43	1.2
Plot 71	02-Jun-16	15867160602011	200	0.21	0.14	46	<0.40	---	3.5	0.068	<1.0	<0.50	8.5	370	1	<0.80	500	0.056	<0.10	<1.0	<0.50	---	<0.20	12	570	<0.020	<1.0	4.6	<0.040	<1.0	31	0.25
Plot 71	01-Jun-17	15867170601011	260	<0.12	0.16	78	<0.40	---	6.3	0.13	<1.0	<0.50	7.2	430	1.7	<0.80	780	<0.050	<0.10	<1.0	<0.50	---	<0.20	18	760	0.031	<1.0	5.6	<0.040	<1.0	34	0.65
Plot 71	31-May-18	15867180531010	300	<0.26	0.27	76	<0.40	---	4	0.16	1.3	<0.50	5.6	540	2.3	<3.1	620	0.11	0.23	1.5	<0.50	---	0.3	25	850	<0.052	<1.0	5.1	<0.080	<1.0	38	<1.0
Plot 71	01-Jun-19	15867190601039	361	0.021	0.146	57.7	0.017	<0.010	5.3	0.0879	0.55	0.277	2.98	454	0.871	<0.50	542	0.0505	0.133	0.77	0.095	---	0.0192	24.6	950	0.014	0.14	8.58	0.0333	0.93	30.2	0.26
Plot 71	03-Jun-20	15867200604012	680	0.046	0.271	119	0.029	0.014	4.3	0.169	1.01	0.543	4.04	885	2.54	<0.50	671	0.105	0.152	1.37	0.105	---	0.038	26.4	970	0.019	<0.10	14.8	0.0544	1.78	46.6	0.41
Plot 71	06-Jun-22	15867220606004	456	0.038	0.215	72.7	0.023	<0.010	4.9	0.117	0.759	0.447	3.52	635	0.952	<0.50	565	0.0673	0.214	1.07	0.09	---	0.0218	23.7	830	0.0138	0.19	10	0.0563	1.18	40.6	0.46

TABLE G1

Historical Live Moss Quality Results - Metals

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	MSI Sample Number	Al mg/kg	Sb mg/kg	As mg/kg	Ba mg/kg	Be mg/kg	Bi mg/kg	B mg/kg	Cd mg/kg	Cr mg/kg	Co mg/kg	Cu mg/kg	Fe mg/kg	Pb mg/kg	Li mg/kg	Mn mg/kg	Hg mg/kg	Mo mg/kg	Ni mg/kg	Se mg/kg	Si mg/kg	Ag mg/kg	Sr mg/kg	S mg/kg	Tl mg/kg	Sn mg/kg	Ti mg/kg	U mg/kg	V mg/kg	Zn mg/kg	Zr mg/kg
Plot 109	15-May-08	15867080515005	1730	0.6	0.53	44.8	<0.5	---	3	0.67	3.9	<1.0	21.2	898	28.2	0.6	300	1.06	0.5	2.3	<1	156	<0.3	7.9	734	0.05	2.7	85	0.06	2.8	54.2	2
Plot 109	12-Jun-09	15867090612019	1320	0.3	0.274	49.2	<0.5	---	4	0.32	4.8	<1.0	14.7	1090	14.4	0.5	418	0.47	0.48	3.4	<1	6850	<0.3	8.3	1360	0.03	1.4	92	0.08	2.1	32.1	1
Plot 109	26-May-10	15867100526032	1730	0.5	0.348	66.4	<0.5	---	5	0.91	5.2	<1.0	20.5	1420	20.8	0.7	755	2.2	0.42	3.6	<1	10100	<0.3	11.8	1810	0.04	1.3	109	0.09	3	76.7	<0.1
Plot 109	31-May-11	15867110531045	4120	0.5	0.888	92.2	<0.5	---	6	0.57	9	<1.0	17.6	3410	16.8	2.2	507	0.46	0.52	4	<1	16300	<0.3	16	861	0.11	1.5	262	0.16	10.1	60.6	7.6
Plot 109	01-Jun-12	15867120601058	1450	<0.1	0.315	47.9	<0.5	---	<2	0.59	2.4	<1.0	13.5	1060	14.6	<0.4	381	0.42	<0.02	2.7	<1	4010	<0.3	7.9	810	<0.02	<1.0	78	0.04	2.1	48.5	1.3
Plot 109	05-Jun-13	15867130605072	1500	2.8	0.388	46.5	<0.5	---	15	0.5	2.8	<1.0	15.2	980	12.5	1	806	0.47	0.32	2.1	<1	5500	<0.3	9.6	850	0.06	<1.0	64	0.06	2.5	75.2	5.8
Plot 109	30-May-14	15867140530085	1230	0.3	0.362	54.9	<0.5	---	<2	0.49	3.2	<1.0	11.8	1040	16.1	<0.4	575	0.69	0.38	2.9	<1	3640	<0.3	8.6	826	0.05	1.2	80	0.05	2.6	63.3	<0.1
Plot 109	04-Jun-15	15867150604008	610	0.49	0.37	35	<0.40	---	2.1	0.51	1.7	<0.50	20	890	19	<0.80	350	0.16	0.58	2.2	<0.50	---	<0.20	5.8	870	0.032	1.1	15	0.043	1.3	64	0.78
Plot 109	31-May-16	15867160531006	280	0.29	0.24	28	<0.40	---	2.6	0.36	<1.0	<0.50	13	440	13	<0.80	290	0.35	0.41	1.4	<0.50	---	<0.20	4.8	610	<0.020	<1.0	9.5	<0.040	<1.0	51	0.27
Plot 109	31-May-17	15867170531005	200	0.2	0.34	19	<0.40	---	<2.0	0.23	<1.0	<0.50	10	350	9.5	<0.80	380	0.058	0.36	<1.0	<0.50	---	<0.20	3.6	590	<0.026	1.4	9.6	<0.040	<1.0	44	0.83
Plot 109	30-May-18	15867180530006	310	0.32	0.62	28	<0.40	---	<3.7	0.3	2.3	<0.50	8.4	550	13	<3.1	680	0.53	0.61	2.6	<0.50	---	<0.20	4.4	750	<0.052	<1.0	9.2	<0.080	1.1	62	<1.0
Plot 109	30-May-19	15867190530015	492	0.302	0.889	33.6	0.02	0.268	3.9	0.36	1.54	0.351	9.69	705	12.3	<0.50	568	0.321	0.576	2.08	0.106	---	0.0904	7.05	970	0.0246	0.96	18.4	0.0351	1.39	79.8	0.53
Plot 109	03-Jun-20	15867200603009	775	0.455	0.9	45.1	0.027	0.372	4.3	0.561	2.38	0.463	14.6	1150	19.2	<0.50	634	1.01	0.682	2.84	0.145	---	0.139	7.01	1120	0.0423	1.47	27.9	0.0531	2.21	89.3	0.43
Plot 109	07-Jun-22	15867220607008	473	0.234	0.56	32.5	0.02	0.224	5.7	0.253	1.39	0.32	8.95	712	9.28	<0.50	826	0.477	0.405	1.7	0.116	---	0.07	7.05	1160	0.0256	0.82	16.4	0.0384	1.31	78	<0.20
Plot 110	15-May-08	15867080515006	685	<0.1	0.122	40.1	<0.5	---	4	0.09	<1.0	<1.0	3.9	345	<3.0	<0.4	424	0.58	0.1	<2.0	<1	112	<0.3	13.9	669	<0.02	<1.0	27	<0.04	1.2	59.2	0.4
Plot 110	12-Jun-09	15867090612020	1670	<0.1	0.252	43.4	<0.5	---	5	0.14	2.2	<1.0	5.8	994	4.2	0.7	734	0.36	0.25	2	<1	9710	<0.3	10.8	1240	0.02	<1.0	109	0.12	2.9	34.6	1.5
Plot 110	26-May-10	15867100526033	1640	<0.1	0.092	51.2	<0.5	---	4	0.14	1.9	<1.0	6.6	843	3.5	0.4	712	0.46	0.07	<2.0	<1	7880	<0.3	10.7	1490	<0.02	<1.0	64	0.06	2	52.1	<0.1
Plot 110	31-May-11	15867110531046	1230	<0.1	0.062	65.2	<0.5	---	7	0.17	1.6	<1.0	5.6	691	<3.0	0.4	736	0.18	0.15	<2.0	<1	5080	<0.3	21.9	1080	0.02	<1.0	53	0.05	0.9	68.9	1.8
Plot 110	01-Jun-12	15867120601059	1110	<0.1	0.122	47.4	<0.5	---	<2	0.14	<1.0	<1.0	2.7	638	<3.0	<0.4	643	0.32	<0.02	<2.0	<1	3440	0.9	12.3	1020	<0.02	<1.0	49	<0.04	1.4	54.4	<0.1
Plot 110	04-Jun-13	15867130604073	1660	2.5	0.308	38.6	<0.5	---	10	0.16	1.8	<1.0	6.6	923	3.1	0.9	393	0.26	0.26	<2.0	<1	5330	<0.3	9.5	820	0.04	<1.0	56	0.08	2.3	43	9.4
Plot 110	30-May-14	15867140530086	554	<0.1	0.099	35.9	<0.5	---	<2	0.1	1	<1.0	3	385	2.8	<0.4	458	0.51	0.09	<2.0	<1	2020	<0.3	12.9	668	0.04	<1.0	33	<0.04	1	51.4	<0.1
Plot 110	04-Jun-15	15867150604010	250	0.14	0.098	59	<0.40	---	4.8	0.16	<1.0	<0.50	8.1	390	3.5	<0.80	1100	<0.050	0.2	<1.0	<0.50	---	<0.20	23	900	0.026	<1.0	7.1	<0.040	<1.0	63	0.33
Plot 110	31-May-16	15867160531008	150	10	0.49	67	<0.40	---	5.7	0.16	<1.0	<0.50	9.5	250	3.6	<0.80	950	0.16	2.9	<1.0	<0.50	---	<0.20	24	850	0.021	1.9	5.4	<0.040	<1.0	65	<0.20
Plot 110	31-May-17	15867170531007	200	<0.12	0.19	61	<0.40	---	3.9	0.12	<1.0	0.53	5.2	380	3.7	<0.80	980	0.097	0.19	<1.0	<0.50	---	<0.20	22	760	<0.026	<1.0	6.9	<0.040	<1.0	50	0.72
Plot 110	30-May-18	15867180530007	270	<0.26	0.25	48	<0.40	---	6.3	0.13	7	<0.50	7.8	450	3.9	<3.1	1100	0.24	0.28	1.3	<0.50	---	1.3	15	870	<0.052	<1.0	6.1	<0.080	<1.0	71	<1.0
Plot 110	30-May-19	15867190530018	383	0.068	0.239	78.7	0.016	0.072	4.6	0.119	0.571	0.245	3.6	477	3.32	<0.50	912	0.16	0.159	0.81	0.105	---	0.0485	18.8	1080	0.0213	0.37	10.5	0.0626	0.94	62.3	0.21
Plot 110	03-Jun-20	15867200603011	304	0.05	0.161	70.5	0.01	0.056	5.6	0.0864	0.469	0.256	3.81	393	2.15	<0.50	1050	0.143	0.148	0.66	0.074	---	0.0236	19.6	840	0.0204	0.13	7.87	0.0308	0.81	61.3	<0.20
Plot 110	07-Jun-22	15867220607010	311	0.052	0.206	87.1	0.012	0.049	5.3	0.0933	0.503	0.426	4.02	450	1.99	<0.50	1200	0.148	0.185	0.64	0.084	---	0.0337	22.3	860	0.0228	0.12	6.99	0.0254	0.81	56.7	<0.20
Plot 114	15-May-08	15867080515007	1410	0.3	0.32	35.4	<0.5	---	4	0.61	2.4	<1.0	15.3	730	7.8	0.5	945	0.6	0.34	<2.0	<1	149	<0.3	8.6	846	0.05	1.4	70	0.05	2.3	70.6	1.5
Plot 114	12-Jun-09	15867090612021	1360	0.2	0.225	23.7	<0.5	---	3	0.52	3.3	<1.0	15.3	853	7.5	0.4	292	0.31	0.46	2.3	<1	5330	<0.3	6.8	960	0.02	<1.0	87	0.07	1.8	31	0.7
Plot 114	26-May-10	15867100526034	1340	0.3	0.248	38.4	<0.5	---	<2	0.88	3.6	<1.0	19.8	1070	12.1	<0.4	263	0.43	0.34	2.6	<1	6750	<0.3	7.9	1110	0.03	<1.0	103	0.07	2.2	49.6	<0.1
Plot 114	31-May-11	15867110531047	1950	0.5	0.211	34.6	<0.5	---	4	0.46	3.1	<1.0	15.3	989	9.8	0.5	324	0.21	0.34	2.6	<1	4490	<0.3	7.8	799	0.04	2.3	86	0.07	1.6	52	2.5
Plot 114	01-Jun-12	15867120601060	1560	<0.1	0.294	45	<0.5	---	<2	0.62	2.1	<1.0	16.6	942	8.8	<0.4	366	0.02	<0.02	<2.0	<1	3550	<0.3	6.9	807	<0.02	<1.0	87	<0.04	1.9	47.6	<0.1
Plot 114	04-Jun-13	15867130604074	1910	2.5	0.266	38.5	<0.5	---	9	0.76	2.7	<1.0	17	929	8.6	0.8	368	0.17	0.31	2.4	<1	3860	<0.3	7.8	752	0.05	<1.0	79	0.06	1.8	54.2	7
Plot 114	31-May-14	15867140531087	772	0.1	0.173	23.6	<0.5	---	<2	0.35	1.6	<1.0	7.8	466	6.7	<0.4	419	0.52	0.18	<2.0	<1	1820	<0.3	5.4	586	0.03	<1.0	44	<0.04	1.2	47.2	<0.1
Plot 114	04-Jun-15	15867150604007	2400	0.22	0.64	120	<0.40	---	4.8	0.98	2.2	2.6	14	2500	6.7	1.1	1200	0.19	0.64	4	<0.50	---	<0.20	37	1000	0.047	<1.0	16	0.31	3.8	48	2.7
Plot 114	01-Jun-16	15867160601010	220	0.12	0.14	68	<0.40	---	8.8	0.55	<1.0	<0.50	7.2	300	3.4	<0.80	1300	0.12	0.28	1.1	<0.50	---	<0.20	24	630	<0.020	<1.0	5.6	<0.040	<1.0	64	0.31
Plot 114	31-May-17	15867170531004	560	0.25	0.46	76	<0.40	---	8.7	0.7	1.1	0.65	9.6	780	8	<0.80	1300	0.24	0.63	2.5	<0.50	---	<0.20	24	830	0.028	1.3	18	0.077	1.4	71	1.7
Plot 114	30-May-18	15867180530004	560	0.27	0.43	61	<0.40	---	6.8	0.52	3.3	<0.50	12	660	9.8	<3.1	1200	0.4	0.69	2.7	<0.50	---	0.3	15	840	<0.052	1.2	15	<0.080	1.3	70	<1.0
Plot 114	31-May-19	15867190531024	587	0.213	0.516	29.2	0.016	0.249	4.7	0.344	0.962	0.359	8.84	493	7.72	<0.50	721	0.263	0.412	1.81	0.096	---	0.0905	6.85	790	0.0192	0.92	15.2	0.0228	0.87	77.6	<0.20
Plot 114	03-Jun-20	15867200603007	577	0.299	0.535	39.3	0.02	0.289	7.4	0.408	1.35	0.408	11.2	684	12.6	<0.50	1440	0.474	0.517	1.83	0.106	---	0.133	9.07	1050	0.0241	1.29	19.9	0.0308	1.18	114	<0.20
Plot 114	07-Jun-22	15867220607007	708	0.234	0.513	88.5	0.043	0.26	8.6	0.737	1.61	0.546	9.56	826	9.21	<0.50	1230	0.872	0.456	1.99	0.111	---	0.0931	27.8	950	0.0253	1.14	21.2	0.0689	1.5	89.9	0.29
Plot 117	15-May-08	15867080515008	677	<0.1	0.157	24.1	<0.5	---	3	0.21	<1.0	<1.0	5.3	361	<3.0	<0.4	509	0.57	0.12	<2.0	<1	201	<0.3	4.6	780	0.03	<1.0	28	<0.04	1.2	36.5	0.5
Plot 117	12-Jun-09	15867090612022	2850	0.1	0.307	67.1	<0.5	---	3	0.22	2.9	<1.0	6.6	1400	4.7	0.9	400	0.13	0.24	3.2	<1	12400	<0.3	13.5	1080	0.03	<1.0	154	0.12	4.2	19.9	3.4
Plot 117	26-May-10	15867100526035	1420	<0.1	<0.050	53.4	<0.5	---	<2	0.24	2.9	<1.0	5.6	700	3.6	<0.4	371	0.12	0.05	2.9	<1	7030	<0.3	11.4	981	<0.02	<1.0	60	0.05	1.5	24.8	<0.1
Plot 117	31-May-11	15867110531048	1900	0.1	0.102	62.2	<0.5	---	3	0.33	2.2	<1.0	7	843	3.9	0.5	505	0.09	0.15	3.1	<1	5280	<0.3	16.3	894	0.04	<1.0	69	0.05	1.6	34.4	2.2
Plot 117	01-Jun-12	15867120601061	1900	<0.1	0.225	50	<0.5	---	<2	0.42	1.6	1.7	4.4	1060	<3.0	<0.4	300	0.09	<0.02	<2.0	<1	10200	<0.3	16.5	1040	<0.02	<1.0	80	0.06	2.8	39.1	1.3
Plot 117	04-Jun-13	15867130604075	1600	2.4	0.183	37.1	<0.5	---	8	0.34	1.4	<1.0	7.4	740	4.2	0.7	233	0.15	0.16	2	<1	3760	<0.3	7.6	612	0.04	<1.0	47	0.05	1.8	25.8	6.8
Plot 117	31-May-14	15867140531088	720	<0.1	0.132	16.8	<0.5	---	<2	0.1	1.3	<1.0	3.7	462	2.1	<0.4	261	0.42	0.07	<2.0	<1	1760	<0.3	4.3	490	<0.02	<1.0	43	<0.04	1.2	21.5	<0.1
Plot 117	04-Jun-15	15867150604011	880	0.14	0.19	22	<0.40	---	2.5	0.35	<1.0	<0.50	12	580	3	<0.80	280	0.055	0.19	1.8	<0.50	---	<0.20	3.8	760	0.03	<1.0	8.7	<0.040	<1.0	35	1.1
Plot 117	01-Jun-16	15867160601009	470	<0.10	0.11	15	<0.40	---	3	0.2	<1.0	<0.50	8.5	250	1.5	<0.80	430	0.072	0.1	1.3	<0.50	---	<0.20	3.6	560	<0.020	<1.0	4.2	<0.040	<1.0	29	0.47
Plot 117	31-May-17	15867170531003	460	<0.12	0.17	29	<0.40	---	2.5	0.23	<1.0	<0.50	6.1	350	2.1	<0.80	480	<0.050	0.14	1.4	<0.50	---	<0.20	3.6	680	<0.026	1.1	6.2	<0.040	<1.0	32	1.4
Plot 117	30-May-18	15867180530005	490	<0.26	0.2	33	<0.40	---	<3.7	0.17	2	<0.50	5.3	370	2.1	<3.1	430	0.14	0.34	2.4	<0.50	---	<0.20	6.2	690	<0.052	<1.0	4.9	<0.080	<1.0	35	<1.0
Plot 117	31-May-19	15867190531023	739	0.058	0.217	20.4	0.018	0.053	2.6	0.184	0.571	0.36	3.9	387	2.26	<0.50	424	0.0739	0.124	1.7	0.109	---	0.0497	4.79	680	0.0135	0.24	7.26	0.0206	0.75	31.6	<0.20
Plot 117	03-Jun-20	15867200603006	630	0.09	0.192	28.4	0.016	0.067	3.4	0.269	0.6	0.382	5.86	438	2.21	<0.50	509	0.146	0.149	1.76	0.101	---	0.0864	6.69	820	0.0164	0.24	9.57	0.021	0.82	43.6	<0.20
Plot 117	07-Jun-22	15867220607006	747	0.071	0.214	28.3	0.017	0.061	3.8	0.201	0.656	0.391	4.18	436	2.03	<0.50	549	0.114	0.163	1.82	0.11	---	0.0509	4.74	720	0.0228	0.52	9.66	0.0216	0.78	43.4	0.27

TABLE G1

Historical Live Moss Quality Results - Metals

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	MSI Sample Number	Al mg/kg	Sb mg/kg	As mg/kg	Ba mg/kg	Be mg/kg	Bi mg/kg	B mg/kg	Cd mg/kg	Cr mg/kg	Co mg/kg	Cu mg/kg	Fe mg/kg	Pb mg/kg	Li mg/kg	Mn mg/kg	Hg mg/kg	Mo mg/kg	Ni mg/kg	Se mg/kg	Si mg/kg	Ag mg/kg	Sr mg/kg	S mg/kg	Tl mg/kg	Sn mg/kg	Ti mg/kg	U mg/kg	V mg/kg	Zn mg/kg	Zr mg/kg
Plot 123	15-May-08	15867080515009	854	<0.1	0.16	44.9	<0.5	---	3	0.09	1.3	<1.0	3.7	426	<3.0	<0.4	592	0.44	0.13	2.6	<1	128	<0.3	8.3	795	<0.02	<1.0	34	<0.04	1.4	42.6	0.7
Plot 123	12-Jun-09	15867090612023	1250	<0.1	0.15	57.7	<0.5	---	4	0.12	1.5	<1.0	5.1	707	<3.0	0.4	387	0.1	0.27	<2.0	<1	7560	<0.3	10.7	1310	<0.02	<1.0	64	0.07	1.8	16.7	0.2
Plot 123	26-May-10	15867100526036	1530	<0.1	0.092	66.7	<0.5	---	3	0.11	1.2	<1.0	5.2	758	<3.0	<0.4	873	0.1	0.06	<2.0	<1	7320	<0.3	10.1	1690	<0.02	<1.0	62	0.05	1.8	46	<0.1
Plot 123	31-May-11	15867110531049	894	<0.1	<0.050	38.8	<0.5	---	3	0.05	1.4	<1.0	3.9	506	<3.0	<0.4	766	0.05	0.11	<2.0	<1	3640	<0.3	6.8	795	0.02	<1.0	39	<0.04	<0.6	27.9	1.5
Plot 123	01-Jun-12	15867120601062	673	<0.1	0.054	33.4	<0.5	---	<2	0.05	<1.0	<1.0	0.5	374	<3.0	<0.4	482	0.05	<0.02	<2.0	<1	1970	<0.3	4.8	636	<0.02	<1.0	30	<0.04	0.7	17	<0.1
Plot 123	04-Jun-13	15867130604076	933	2.3	0.054	53.6	<0.5	---	11	0.14	<1.0	<1.0	6.6	467	<3.0	0.5	507	0.06	0.17	<2.0	<1	4670	<0.3	9.8	701	0.02	<1.0	34	<0.04	1.3	29.8	4.7
Plot 123	30-May-14	15867140530089	319	<0.1	0.12	30.3	<0.5	---	<2	0.03	<1.0	<1.0	1.9	210	0.8	<0.4	333	0.34	0.07	<2.0	<1	1680	<0.3	8.1	525	0.03	<1.0	17	<0.04	0.7	24.4	<0.1
Plot 123	03-Jun-15	15867150603001	300	0.1	0.13	24	<0.40	---	3.2	0.12	<1.0	<0.50	10	440	1.1	<0.80	750	<0.050	0.13	1.3	<0.50	---	<0.20	5.2	950	0.024	<1.0	6.5	<0.040	<1.0	58	1.7
Plot 123	30-May-16	15867160530003	180	<0.10	0.067	21	<0.40	---	3.6	0.058	<1.0	<0.50	7	200	0.53	<0.80	580	0.058	<0.10	<1.0	<0.50	---	<0.20	3.3	570	<0.020	<1.0	2.8	<0.040	<1.0	31	<0.20
Plot 123	31-May-17	15867170531009	300	<0.12	0.11	19	<0.40	---	3.4	0.081	<1.0	<0.50	5.2	240	0.58	<0.80	580	<0.050	<0.10	<1.0	<0.50	---	<0.20	3.8	670	<0.026	<1.0	3.5	<0.040	<1.0	30	0.55
Plot 123	31-May-18	15867180531009	380	<0.26	0.24	31	<0.40	---	<3.7	0.12	1.7	<0.50	6.4	400	1.1	<3.1	890	0.13	0.23	2	<0.50	---	0.49	5.3	830	<0.052	<1.0	3.8	<0.080	<1.0	48	1.4
Plot 123	30-May-19	15867190530014	329	0.025	0.158	31	0.015	0.014	4.1	0.0944	0.449	0.256	3.86	388	0.789	<0.50	864	0.0896	0.083	1.23	0.091	---	0.0366	6.81	950	0.0225	0.24	8.06	0.0232	0.79	57.5	0.24
Plot 123	02-Jun-20	15867200602003	496	0.044	0.179	34.8	0.018	0.02	5.4	0.107	0.645	0.273	4.12	541	1.29	<0.50	912	0.113	0.121	1.35	0.092	---	0.0385	6.99	960	0.0304	0.14	10.1	0.0264	1.09	53.5	<0.20
Plot 123	06-Jun-22	15867220606003	428	0.031	0.153	17.7	0.016	0.014	4.3	0.0733	0.48	0.192	3.47	392	0.745	<0.50	798	0.259	0.076	1.14	0.071	---	0.0286	4.99	790	0.0204	0.2	7.48	0.0211	0.77	49.9	0.21
Plot 402	15-May-08	15867080515010	1030	<0.1	0.177	31	<0.5	---	3	0.07	1.1	<1.0	3.1	438	<3.0	<0.4	787	0.48	0.11	<2.0	<1	162	<0.3	10.5	703	<0.02	<1.0	39	<0.04	1.6	51.1	0.8
Plot 402	12-Jun-09	15867090612024	1650	<0.1	0.185	47.5	<0.5	---	4	0.08	1.9	<1.0	3.8	845	<3.0	0.5	622	0.1	0.14	<2.0	<1	8480	<0.3	12.6	1140	0.02	<1.0	89	0.09	2.3	30.9	1.3
Plot 402	25-May-10	15867100525037	1360	<0.1	0.052	54.4	<0.5	---	3	0.29	1.3	<1.0	5.1	819	<3.0	0.5	795	0.08	0.03	<2.0	<1	7590	<0.3	11.7	1450	<0.02	<1.0	67	0.06	1.8	56.7	<0.1
Plot 402	31-May-11	15867110531050	2030	<0.1	0.112	63.5	<0.5	---	4	0.13	3	<1.0	4.8	946	<3.0	0.6	561	0.08	0.17	2	<1	7830	<0.3	23.6	924	0.04	<1.0	85	0.08	1.7	47.5	2.7
Plot 402	01-Jun-12	15867120601063	1630	<0.1	0.137	59.4	<0.5	---	<2	0.55	<1.0	<1.0	2	790	<3.0	<0.4	406	0.05	<0.02	<2.0	<1	3210	<0.3	13.6	907	<0.02	<1.0	68	0.06	1.7	46.8	<0.1
Plot 402	04-Jun-13	15867130604077	1500	2.2	0.146	68.1	<0.5	---	16	0.36	1.5	1.2	6.7	738	<3.0	0.9	1710	0.11	0.12	<2.0	<1	5870	<0.3	28.7	987	0.04	<1.0	55	0.06	1.6	77.4	5.9
Plot 402	30-May-14	15867140530090	1030	<0.1	0.18	31.4	<0.5	---	<2	0.03	1.8	<1.0	2.9	636	1.3	<0.4	543	0.38	0.08	<2.0	<1	3120	<0.3	7.6	582	0.08	<1.0	61	0.06	1.9	34	<0.1
Plot 402	04-Jun-15	15867150604012	350	<0.10	0.15	18	<0.40	---	<2.0	0.23	<1.0	<0.50	11	480	0.78	<0.80	290	<0.050	<0.10	<1.0	<0.50	---	<0.20	6.2	630	<0.020	<1.0	6.6	<0.040	<1.0	41	0.95
Plot 402	30-May-16	15867160530001	320	<0.10	0.19	24	<0.40	---	4.1	0.21	<1.0	<0.50	8.7	460	0.82	<0.80	320	0.054	<0.10	<1.0	<0.50	---	<0.20	7.9	590	<0.020	<1.0	6.8	<0.040	<1.0	30	0.46
Plot 402	31-May-17	15867170531001	430	0.16	0.25	32	<0.40	---	4.4	0.11	1	0.68	9.3	640	1.4	<0.80	440	<0.050	0.1	1.4	<0.50	---	<0.20	10	810	<0.026	<1.0	9.9	0.056	1.1	38	3.4
Plot 402	29-May-18	15867180529001	460	<0.26	0.27	38	<0.40	---	5.7	0.13	2.7	<0.50	6.5	660	1.3	<3.1	730	0.17	0.43	2.8	<0.50	---	<0.20	15	880	<0.052	<1.0	12	<0.080	1.4	53	<1.0
Plot 402	30-May-19	15867190530010	700	0.029	0.284	49.9	0.031	<0.010	3.8	0.129	0.921	0.48	3.69	791	1.07	<0.50	720	0.0951	0.101	1.48	0.09	---	0.0371	14	1070	0.0232	0.13	14.9	0.0533	1.63	56.6	0.64
Plot 402	02-Jun-20	15867200602001	771	0.036	0.278	56	0.032	0.016	5.5	0.0901	0.985	0.584	4.51	834	1.3	<0.50	647	0.127	0.102	1.71	0.093	---	0.0301	18.8	860	0.0219	0.11	15.5	0.0686	1.69	59.4	0.38
Plot 402	06-Jun-22	15867220606001	1470	0.036	0.568	49.8	0.045	0.022	4.5	0.138	1.64	0.713	4.19	1300	1.66	0.57	515	0.115	0.163	1.89	0.124	---	0.205	15.9	780	0.0419	3.53	23.9	0.128	3.34	53.4	0.85

TABLE G2

Historical Live Moss Quality Results - Macronutrients

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	MSI Sample Number	pH	EC dS/m	Saturation %	Ca mg/kg	Mg mg/kg	K mg/kg	Na mg/kg	P mg/kg	S mg/kg
Plot 4	15-May-08	15867080515001	6.1	0.553	1410	3650	603	2550	289	907	842
Plot 4	12-Jun-09	15867090612013	4.74	0.546	1180	5260	741	2900	259	1110	1230
Plot 4	25-May-10	15867100525028	5.08	0.614	1000	6640	1050	4580	330	1450	1740
Plot 4	31-May-11	15867110531041	4.78	0.984	628	7600	888	3250	349	1070	963
Plot 4	01-Jun-12	15867120601054	5.2	0.831	771	6380	1030	3690	529	983	778
Plot 4	05-Jun-13	15867130605067	5.03	0.311	1040	6220	778	2600	361	908	844
Plot 4	29-May-14	15867140529081	4.93	0.594	900	7750	713	3460	291	959	880
Plot 4	03-Jun-15	15867150603006	4.27	0.609	778	7800	890	2100	<50	1000	920
Plot 4	31-May-16	15867160531005	4.4	1.12	579	7900	850	2000	<50	990	830
Plot 4	31-May-17	15867170531008	4.6	0.643	894	6800	870	2200	<50	1100	980
Plot 4	29-May-18	15867180529003	4.62	0.785	636	8700	900	3400	<50	1200	1100
Plot 4	31-May-19	15867190531030	4.51	0.658	684	7420	1060	2640	35	1300	1100
Plot 4	03-Jun-20	15867200603008	4.61	1.29	535	7980	877	2330	45	1230	1100
Plot 11	15-May-08	15867080515002	5.67	0.624	1450	4990	716	3290	174	1010	850
Plot 11	12-Jun-09	15867090612014	4.69	0.407	2000	4320	643	3020	183	1150	1430
Plot 11	26-May-10	15867100526029	4.81	0.479	1060	5290	821	3910	264	1180	1500
Plot 11	31-May-11	15867110531042	4.52	0.928	929	5530	967	3940	183	1030	868
Plot 11	01-Jun-12	15867120601055	4.62	0.643	872	5100	838	3190	580	905	795
Plot 11	05-Jun-13	15867130605068	4.8	0.548	994	5160	844	3130	346	1130	952
Plot 11	31-May-14	15867140531082	4.58	0.663	1230	5440	692	4400	153	1080	814
Plot 11	03-Jun-15	15867150603003	4.25	0.51	999	5700	750	3100	<50	1000	840
Plot 11	31-May-16	15867160531004	4.47	1	634	6600	680	1700	<50	880	710
Plot 11	01-Jun-17	15867170601010	4.57	0.501	969	5200	720	2100	<50	970	790
Plot 11	31-May-18	15867180531012	4.55	0.695	791	5700	740	3900	<50	1200	810
Plot 11	01-Jun-19	15867190601032	4.48	0.469	1030	4970	1000	4790	27	1490	1060
Plot 11	02-Jun-20	15867200602004	4.5	0.948	737	4030	694	2540	28	1120	920
Plot 28	05-Jun-13	15867130605069	4.61	0.434	1260	3800	566	2840	189	871	737
Plot 28	03-Jun-15	15867150603002	4.08	0.482	1010	4000	860	3200	<50	1200	950
Plot 40	15-May-08	15867080515011	4.81	0.625	977	4380	703	2370	368	829	869
Plot 40	12-Jun-09	15867090612025	4.94	0.477	1100	6930	677	2240	510	882	1300
Plot 40	25-May-10	15867100525038	4.74	0.541	956	6780	1020	3990	354	1070	1430
Plot 40	31-May-11	15867110531051	4.72	1.26	616	8440	991	3480	384	1160	1040
Plot 40	01-Jun-12	15867120601064	4.63	0.556	756	6520	796	3170	495	890	901
Plot 40	05-Jun-13	15867130605078	4.88	0.5	1530	8790	962	3540	507	1070	880
Plot 40	29-May-14	15867140529091	4.73	0.433	1290	7820	703	3450	334	869	871

TABLE G2

Historical Live Moss Quality Results - Macronutrients

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	MSI Sample Number	pH	EC dS/m	Saturation %	Ca mg/kg	Mg mg/kg	K mg/kg	Na mg/kg	P mg/kg	S mg/kg
Plot 41	15-May-08	15867080515012	5.4	0.838	1060	5100	686	3210	239	1170	1030
Plot 41	12-Jun-09	15867090612026	4.24	0.485	1830	4520	807	4380	135	1310	1210
Plot 41	26-May-10	15867100526039	4.35	0.738	975	5550	1130	3650	199	1060	1360
Plot 41	31-May-11	15867110531052	4.45	0.862	1460	6310	1050	4400	181	1170	948
Plot 41	01-Jun-12	15867120601065	4.37	0.623	1050	4330	774	3290	247	948	1010
Plot 41	05-Jun-13	15867130605079	4.64	0.54	1410	5430	780	3210	179	1090	848
Plot 41	31-May-14	15867140531092	4.42	0.535	2140	3780	815	8180	69	1230	765
Plot 70	15-May-08	15867080515003	5.88	0.717	688	2490	1060	4480	1510	720	796
Plot 70a	12-Jun-09	15867090612015	4.71	0.503	1250	3160	566	3760	776	941	1170
Plot 70b	12-Jun-09	15867090612016	4.33	0.369	1620	2530	606	3120	366	918	1170
Plot 70c	12-Jun-09	15867090612017	4.26	0.386	1060	2230	549	2790	398	773	1090
Plot 70	25-May-10	15867100525030	4.89	0.787	918	8670	1270	4710	586	1340	1780
Plot 70	31-May-11	15867110531043	5.15	0.949	830	4070	1110	4470	577	1050	991
Plot 70	01-Jun-12	15867120601056	4.76	0.832	1100	2800	984	3780	401	835	820
Plot 70	05-Jun-13	15867130605070	4.49	0.374	1500	3770	866	2620	359	850	735
Plot 70	31-May-14	15867140531083	4.76	0.288	1220	3910	656	2550	559	717	787
Plot 70	04-Jun-15	15867150604015	4.56	0.624	886	4300	1100	3400	<50	1000	840
Plot 70	02-Jun-16	15867160602012	4.4	0.596	751	4000	580	1900	<50	900	750
Plot 70	01-Jun-17	15867170601012	4.47	0.524	1220	3700	830	2900	84	1100	870
Plot 70	31-May-18	15867180531011	4.5	0.685	1040	5100	840	2800	<50	1200	990
Plot 70	01-Jun-19	15867190601041	4.52	0.599	1100	4080	1130	4950	79	1560	1060
Plot 70	02-Jun-20	15867200602005	4.31	0.556	996	4230	916	4130	74	1340	980
Plot 71	15-May-08	15867080515004	6.27	0.664	1040	4960	719	2460	292	833	774
Plot 71	12-Jun-09	15867090612018	4.81	0.507	1110	6710	820	2070	461	893	1430
Plot 71	25-May-10	15867100525031	5.43	0.955	893	8900	1810	4550	364	1540	1690
Plot 71	31-May-11	15867110531044	4.72	0.631	1240	7100	978	3770	262	1200	1030
Plot 71	01-Jun-12	15867120601057	4.95	0.638	882	6730	742	2760	316	903	982
Plot 71	05-Jun-13	15867130605071	4.78	0.397	1910	5990	1570	7120	3570	831	555
Plot 71	31-May-14	15867140531084	4.72	0.59	1300	7370	997	3520	385	864	975
Plot 71	04-Jun-15	15867150604014	4.63	0.648	933	7200	970	2900	<50	1100	1000
Plot 71	02-Jun-16	15867160602011	4.35	0.613	726	4000	530	1900	<50	750	570
Plot 71	01-Jun-17	15867170601011	4.49	0.461	980	6500	830	3500	<50	1100	760
Plot 71	31-May-18	15867180531010	4.77	0.735	924	6700	800	3600	100	1100	850
Plot 71	01-Jun-19	15867190601039	4.39	0.445	869	6200	1180	4440	193	1320	950
Plot 71	03-Jun-20	15867200604012	4.5	0.641	892	7070	803	3150	64	1150	970

TABLE G2

Historical Live Moss Quality Results - Macronutrients

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	MSI Sample Number	pH	EC dS/m	Saturation %	Ca mg/kg	Mg mg/kg	K mg/kg	Na mg/kg	P mg/kg	S mg/kg
Plot 109	15-May-08	15867080515005	5.43	0.49	1170	3210	593	2340	275	770	734
Plot 109	12-Jun-09	15867090612019	4.61	0.426	1430	4650	612	2350	207	959	1360
Plot 109	26-May-10	15867100526032	5.68	0.588	1170	6790	1060	4130	301	1300	1810
Plot 109	31-May-11	15867110531045	4.35	0.612	908	5540	977	3780	678	837	861
Plot 109	01-Jun-12	15867120601058	4.84	0.43	1220	3500	623	2970	205	699	810
Plot 109	05-Jun-13	15867130605072	4.58	0.573	1450	7190	1050	3880	239	1100	850
Plot 109	30-May-14	15867140530085	4.54	0.442	1480	5050	872	3780	166	915	826
Plot 109	04-Jun-15	15867150604008	4.11	0.441	1110	4000	600	2700	<50	1000	870
Plot 109	31-May-16	15867160531006	4.2	0.554	912	3500	500	2100	<50	760	610
Plot 109	31-May-17	15867170531005	4.25	0.47	1030	3200	590	3000	<50	780	590
Plot 109	30-May-18	15867180530006	4.38	0.50	843	4400	660	3500	<50	940	750
Plot 109	30-May-19	15867190530015	4.4	0.58	760	5240	800	3320	28	1230	970
Plot 109	03-Jun-20	15867200603009	4.14	0.74	707	5450	634	2060	40	1200	1120
Plot 110	15-May-08	15867080515006	5.28	0.6	1180	5300	592	2970	102	836	669
Plot 110	12-Jun-09	15867090612020	5.01	0.581	997	6620	774	1970	266	957	1240
Plot 110	26-May-10	15867100526033	4.53	0.495	1100	6800	915	3720	213	1200	1490
Plot 110	31-May-11	15867110531046	4.47	1.1	680	8270	1070	4130	177	1230	1080
Plot 110	01-Jun-12	15867120601059	4.49	0.517	1060	5960	690	3290	160	1040	1020
Plot 110	04-Jun-13	15867130604073	4.96	0.314	892	4810	608	3080	240	953	820
Plot 110	30-May-14	15867140530086	4.81	0.314	1990	4590	739	4190	85	952	668
Plot 110	04-Jun-15	15867150604010	4.66	0.742	963	8500	860	3400	<50	1200	900
Plot 110	31-May-16	15867160531008	4.55	0.872	648	8200	710	3200	<50	1200	850
Plot 110	31-May-17	15867170531007	4.61	0.71	1180	6100	850	3300	<50	1100	760
Plot 110	30-May-18	15867180530007	4.72	0.758	925	9300	720	3100	<50	1100	870
Plot 110	30-May-19	15867190530018	4.81	0.865	962	6160	1030	5930	21	1720	1080
Plot 110	03-Jun-20	15867200603011	4.53	0.824	812	7670	819	3270	26	1270	840
Plot 114	15-May-08	15867080515007	5.65	0.557	1450	5040	765	3710	242	1000	846
Plot 114	12-Jun-09	15867090612021	4.5	0.412	1520	2950	568	2440	184	816	960
Plot 114	26-May-10	15867100526034	5.1	0.43	995	3010	760	3380	262	816	1110
Plot 114	31-May-11	15867110531047	4.27	0.449	903	3750	652	2960	246	733	799
Plot 114	01-Jun-12	15867120601060	4.84	0.425	1270	2780	686	2920	228	701	807
Plot 114	04-Jun-13	15867130604074	4.7	0.316	1980	3720	754	2660	221	908	752
Plot 114	31-May-14	15867140531087	4.39	0.365	2160	3530	716	5150	107	861	586
Plot 114	04-Jun-15	15867150604007	5.15	0.808	929	8700	1300	2500	60	1100	1000
Plot 114	01-Jun-16	15867160601010	4.07	0.647	740	9300	690	1800	<50	790	630
Plot 114	31-May-17	15867170531004	3.99	0.286	1070	8000	940	2100	63	930	830
Plot 114	30-May-18	15867180530004	4.31	0.765	589	6200	720	3100	<50	1000	840
Plot 114	31-May-19	15867190531024	4.25	0.492	884	4430	906	3120	31	1050	790
Plot 114	03-Jun-20	15867200603007	4.68	0.922	719	7240	817	3030	33	1230	1050

TABLE G2

Historical Live Moss Quality Results - Macronutrients

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	MSI Sample Number	pH	EC dS/m	Saturation %	Ca mg/kg	Mg mg/kg	K mg/kg	Na mg/kg	P mg/kg	S mg/kg
Plot 117	15-May-08	15867080515008	5.48	0.547	1740	3180	852	3980	108	986	780
Plot 117	12-Jun-09	15867090612022	4.55	0.385	1300	3510	595	2040	384	776	1080
Plot 117	26-May-10	15867100526035	5.2	0.296	1480	3690	871	3580	219	766	981
Plot 117	31-May-11	15867110531048	4.73	0.828	951	5050	950	4020	262	1050	894
Plot 117	01-Jun-12	15867120601061	4.48	0.622	1290	4000	1140	4400	220	967	1040
Plot 117	04-Jun-13	15867130604075	4.92	0.219	1610	2820	567	2260	166	658	612
Plot 117	31-May-14	15867140531088	4.25	0.176	2970	2180	501	3300	105	603	490
Plot 117	04-Jun-15	15867150604011	4.17	0.512	926	2700	580	1600	<50	770	760
Plot 117	01-Jun-16	15867160601009	4.16	0.531	761	3100	590	2100	<50	690	560
Plot 117	31-May-17	15867170531003	4.27	0.418	999	2800	720	2800	<50	890	680
Plot 117	30-May-18	15867180530005	4.33	0.555	1030	3500	840	3800	<50	940	690
Plot 117	31-May-19	15867190531023	4.33	0.447	840	2800	708	2570	27	852	680
Plot 117	03-Jun-20	15867200603006	4.37	0.453	1030	3780	677	3310	30	1240	820
Plot 123	15-May-08	15867080515009	4.94	0.519	1520	4290	835	3470	150	930	795
Plot 123	12-Jun-09	15867090612023	4.95	0.776	1100	3360	853	2570	188	1030	1310
Plot 123	26-May-10	15867100526036	4.54	0.592	858	5540	993	3680	204	1150	1690
Plot 123	31-May-11	15867110531049	4.09	0.655	1130	4080	994	4330	152	908	795
Plot 123	01-Jun-12	15867120601062	4.42	0.257	1880	2630	539	3120	115	647	636
Plot 123	04-Jun-13	15867130604076	4.57	0.389	1830	3520	1000	4120	153	1050	701
Plot 123	30-May-14	15867140530089	5.15	0.259	3130	3260	944	4700	67	683	525
Plot 123	03-Jun-15	15867150603001	4.39	0.611	887	5300	790	3200	58	1300	950
Plot 123	30-May-16	15867160530003	4.38	0.688	740	3600	620	2700	<50	850	570
Plot 123	31-May-17	15867170531009	4.31	0.448	1090	3800	700	2800	<50	950	670
Plot 123	31-May-18	15867180531009	4.44	0.735	832	5200	700	3100	<50	1100	830
Plot 123	30-May-19	15867190530014	4.24	0.582	660	5480	974	4080	34	1390	950
Plot 123	02-Jun-20	15867200602003	4.22	0.765	822	5460	694	2990	25	1240	960
Plot 402	15-May-08	15867080515010	5.68	0.424	1810	3960	894	4450	197	1150	703
Plot 402	12-Jun-09	15867090612024	4.62	0.539	1220	5470	704	2380	296	902	1140
Plot 402	25-May-10	15867100525037	4.81	0.609	1200	5020	957	5840	276	1190	1450
Plot 402	31-May-11	15867110531050	4.51	0.95	877	7990	1110	4170	362	1130	924
Plot 402	01-Jun-12	15867120601063	4.44	0.516	1180	3730	796	3680	274	970	907
Plot 402	04-Jun-13	15867130604077	5.34	0.623	1140	11400	1120	2900	238	1200	987
Plot 402	30-May-14	15867140530090	4.3	0.306	2370	3360	710	5820	183	888	582
Plot 402	04-Jun-15	15867150604012	4.44	0.496	1360	3100	550	3200	<50	670	630
Plot 402	30-May-16	15867160530001	4.41	0.67	898	3500	420	1400	<50	660	590
Plot 402	31-May-17	15867170531001	4.48	0.516	1040	4900	760	3200	<50	1100	810
Plot 402	29-May-18	15867180529001	4.73	0.708	1030	6600	840	3800	160	1200	880
Plot 402	30-May-19	15867190530010	4.65	0.615	850	5870	1210	5300	23	1630	1070
Plot 402	02-Jun-20	15867200602001	4.5	0.648	975	8500	710	2810	<20	1220	860

TABLE G3

Historical Labrador Tea Leaves Quality Results - Metals

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	MSI Sample Number	Al mg/kg	Sb mg/kg	As mg/kg	Ba mg/kg	Be mg/kg	Bi mg/kg	B mg/kg	Cd mg/kg	Cr mg/kg	Co mg/kg	Cu mg/kg	Fe mg/kg	Pb mg/kg	Li mg/kg	Mn mg/kg	Hg mg/kg	Mo mg/kg	Ni mg/kg	Se mg/kg	Si mg/kg	Ag mg/kg	Sr mg/kg	S mg/kg	Tl mg/kg	Sn mg/kg	Ti mg/kg	U mg/kg	V mg/kg	Zn mg/kg	Zr mg/kg
Plot 4	15-May-08	15867080515101	326	0.1	0.142	84.4	<0.5	---	19	0.21	1	<1.0	6.3	199	<3.0	<0.4	499	0.06	0.1	3.4	<1	114	<0.3	7	1020	0.1	1.5	15	<0.04	<0.6	26.6	<0.1
Plot 4	12-Jun-09	15867090612113	160	<0.1	<0.050	71.3	<0.5	---	17	0.02	<1.0	<1.0	4.3	128	<3.0	<0.4	592	0.03	0.05	<2.0	<1	1730	<0.3	4.4	1270	<0.02	<1.0	10	<0.04	<0.6	16.7	<0.1
Plot 4	25-May-10	15867100525128	269	<0.1	<0.050	87.8	<0.5	---	17	0.03	<1.0	<1.0	4	180	<3.0	<0.4	704	0.02	<0.02	<2.0	<1	1940	<0.3	4.9	1720	<0.02	<1.0	12	<0.04	<0.6	25.1	<0.1
Plot 4	31-May-11	15867110531140	418	<0.1	<0.050	105	<0.5	---	22	<0.02	<1.0	<1.0	5.3	248	<3.0	<0.4	894	0.02	0.06	<2.0	<1	1080	<0.3	7	1270	<0.02	<1.0	20	<0.04	<0.6	33.4	0.8
Plot 4	01-Jun-12	15867120601152	352	<0.1	<0.050	102	<0.5	---	13	0.04	<1.0	<1.0	3.5	202	<3.0	<0.4	915	0.06	<0.02	<2.0	<1	1240	<0.3	7.6	1040	<0.02	<1.0	17	<0.04	<0.6	27.9	<0.1
Plot 4	05-Jun-13	15867130605164	384	2.2	<0.050	81.5	<0.5	---	33	0.08	<1.0	<1.0	6.3	209	<3.0	<0.4	1010	0.05	0.02	<2.0	<1	1510	<0.3	5.2	1040	<0.02	<1.0	15	<0.04	<0.6	41	4
Plot 4	29-May-14	15867140529177	287	<0.1	0.06	135	<0.5	---	<2	0.02	<1.0	<1.0	5.2	194	1.9	<0.4	1110	0.39	0.14	<2.0	<1	475	<0.3	8.2	1390	<0.02	<1.0	14	<0.04	<0.6	38.6	<0.1
Plot 4	03-Jun-15	15867150603106	130	<0.10	<0.050	91	<0.40	---	20	0.045	<1.0	<0.50	10	150	1.2	<0.80	960	<0.050	0.13	1	<0.50	---	<0.20	5	1000	0.023	<1.0	3.2	<0.040	<1.0	32	0.29
Plot 4	31-May-16	15867160531105	56	<0.10	<0.050	71	<0.40	---	16	<0.020	<1.0	<0.50	2.8	52	0.68	<0.80	490	<0.050	<0.10	<1.0	<0.50	---	<0.20	3.9	750	<0.020	<1.0	<1.0	<0.040	<1.0	21	<0.20
Plot 4	31-May-17	15867170531108	80	<0.12	0.25	88	<0.40	---	18	<0.020	<1.0	<0.50	3.4	94	0.72	<0.80	660	<0.050	<0.10	<1.0	<0.50	---	<0.20	4.4	920	<0.026	<1.0	2.1	<0.040	<1.0	29	0.62
Plot 4	29-May-18	15867180529103	150	<0.26	<0.10	95	<0.40	---	23	<0.040	<1.0	<0.50	4.8	170	0.56	<1.6	780	<0.050	0.051	<1.0	<0.50	---	<0.20	6	1200	<0.052	<1.0	2.5	<0.080	<1.0	29	<1.0
Plot 4	31-May-19	15867190531130	115	0.027	0.095	87.6	<0.010	0.064	23.6	0.0132	0.198	0.067	3.64	130	0.656	<0.50	844	0.0213	0.046	0.61	<0.050	---	0.0061	4.96	1100	0.0055	0.14	2.82	0.005	0.2	28.9	<0.20
Plot 4	03-Jun-20	15867200603108	79	0.022	0.053	91.4	<0.010	0.019	22	0.0119	0.131	0.049	3.66	92.7	0.696	<0.50	706	0.0453	0.048	0.58	<0.050	---	<0.0050	4.76	1270	0.0203	<0.10	1.99	0.0027	0.12	30.8	<0.20
Plot 4	08-Jun-21	15867210608110	82.4	0.017	0.072	103	<0.010	0.022	25.9	0.0097	0.182	0.05	3.98	102	0.432	<0.50	1850	0.0296	0.044	0.59	<0.050	---	0.0051	5.97	1160	0.0482	<0.10	1.94	0.0029	0.13	32.6	<0.20
Plot 4	08-Jun-22	15867220608111	108	0.017	0.079	107	<0.010	0.019	23.6	0.0113	0.201	0.072	3.96	133	0.385	<0.50	797	0.0406	0.055	0.73	<0.050	---	0.0052	6.12	1120	0.0031	0.41	2.55	0.0054	0.18	34.0	<0.20
Plot 4	19-Jun-23	15867230619103	121	0.043	0.079	111	<0.010	0.01	26.8	0.0171	0.184	0.069	3.67	136	0.317	<0.50	944	0.0243	0.046	0.59	<0.050	---	<0.0050	6.05	1270	0.0426	<0.10	2.62	0.0045	0.2	41.0	<0.20
Plot 11	15-May-08	15867080515102	219	<0.1	0.083	76.2	<0.5	---	19	<0.02	<1.0	<1.0	5	129	<3.0	<0.4	542	0.04	0.03	<2.0	<1	124	<0.3	5.4	975	<0.02	1.5	7	<0.04	<0.6	33.2	<0.1
Plot 11	12-Jun-09	15867090612114	127	<0.1	<0.050	66.5	<0.5	---	18	<0.02	<1.0	<1.0	4.1	82	<3.0	<0.4	1130	0.02	0.05	<2.0	<1	1330	<0.3	4.3	1590	<0.02	<1.0	6	<0.04	<0.6	14.8	<0.1
Plot 11	26-May-10	15867100526129	214	<0.1	<0.050	87.8	<0.5	---	18	<0.02	<1.0	<1.0	4.6	124	<3.0	<0.4	650	<0.02	<0.02	<2.0	<1	1590	<0.3	7.1	1770	<0.02	<1.0	8	<0.04	<0.6	24.8	<0.1
Plot 11	31-May-11	15867110531141	209	<0.1	<0.050	79.8	<0.5	---	22	<0.02	<1.0	<1.0	4.4	145	<3.0	<0.4	937	<0.02	0.03	<2.0	<1	887	<0.3	6.1	1260	0.02	<1.0	10	<0.04	<0.6	23.9	0.6
Plot 11	01-Jun-12	15867120601153	269	<0.1	<0.050	79	<0.5	---	8	<0.02	<1.0	<1.0	1.9	133	<3.0	<0.4	909	0.03	<0.02	<2.0	<1	1700	<0.3	6	1040	<0.02	<1.0	11	<0.04	<0.6	25.6	<0.1
Plot 11	05-Jun-13	15867130605165	203	2.2	<0.050	64.6	<0.5	---	35	<0.02	<1.0	<1.0	6.3	120	<3.0	<0.4	1270	<0.02	<0.02	<2.0	<1	1150	<0.3	5.3	1190	<0.02	<1.0	8	<0.04	<0.6	34.2	3.7
Plot 11	31-May-14	15867140531178	167	<0.1	<0.050	78.8	<0.5	---	4	<0.02	<1.0	<1.0	3.2	115	0.6	<0.4	1170	0.39	0.02	<2.0	<1	307	<0.3	5.4	1060	<0.02	2.3	8	<0.04	<0.6	27.3	<0.1
Plot 11	03-Jun-15	15867150603103	76	0.27	<0.050	76	<0.40	---	16	<0.020	<1.0	<0.50	24	87	<0.50	<0.80	990	<0.050	<0.10	<1.0	<0.50	---	<0.20	4.5	970	<0.020	<1.0	1.5	<0.040	<1.0	30	0.26
Plot 11	31-May-16	15867160531104	47	<0.10	<0.050	51	<0.40	---	16	<0.020	<1.0	<0.50	2.5	46	<0.50	<0.80	610	<0.050	<0.10	<1.0	<0.50	---	<0.20	3.3	770	<0.020	<1.0	<1.0	<0.040	<1.0	16	0.24
Plot 11	01-Jun-17	15867170601110	53	<0.15	<0.064	53	<0.51	---	13	<0.026	<1.3	<0.64	2.3	44	<0.64	<0.51	440	<0.064	<0.13	<1.3	<0.64	---	<0.26	3.8	730	<0.034	<1.3	<1.3	<0.052	<1.3	17	0.5
Plot 11	31-May-18	15867180531112	110	<0.26	<0.10	89	<0.40	---	20	<0.040	<1.0	<0.50	3.4	88	<0.50	<1.6	1400	0.068^	<0.050	<1.0	<0.50	---	<0.20	6.3	1200	<0.052	<1.0	1.6	<0.080	<1.0	26	<1.0
Plot 11	01-Jun-19	15867190601132	75.1	<0.010	0.029	99.6	<0.010	<0.010	20.5	<0.0050	0.301	0.035	3.63	78.9	0.136	<0.50	1350	0.0138	0.021	0.47	<0.050	---	<0.0050	5.74	1130	0.0064	0.16	1.37	0.0028	0.11	26.8	<0.20
Plot 11	02-Jun-20	15867200602104	65.3	<0.010	0.026	87.1	<0.010	<0.010	19.6	<0.0050	0.174	0.031	3.54	66.5	0.139	<0.50	992	0.0206	0.034	0.36	<0.050	---	<0.0050	4.92	1280	0.0066	<0.10	1.17	<0.0020	<0.10	28.4	<0.20
Plot 11	07-Jun-21	15867210607103	66.5	<0.010	0.024	109	<0.010	<0.010	24.3	<0.0050	0.152	0.026	3.86	69.6	0.071	<0.50	1730	0.016	<0.020	0.41	<0.050	---	<0.0050	6.37	1200	0.0151	<0.10	1.15	<0.0020	<0.10	30.1	<0.40
Plot 11	08-Jun-22	15867220608112	82.6	<0.010	0.038	92.2	<0.010	<0.010	22.9	<0.0050	0.122	0.037	3.94	95.2	0.12	<0.50	1080	0.021	<0.020	0.41	<0.050	---	<0.0050	5.27	1200	0.0058	0.17	1.54	0.0033	0.12	26.3	<0.20
Plot 11	29-Jun-23	15867230629112	99.7	<0.010	0.033	105	<0.010	<0.010	27.2	0.014	0.099	0.045	3.53	93.1	0.09	<0.50	1110	0.0218	0.02	0.49	<0.050	---	<0.0050	6.89	1100	0.0092	<0.10	1.34	0.0037	0.12	32.9	<0.20
Plot 28	05-Jun-13	15867130605166	267	2.1	<0.050	97.2	<0.5	---	29	0.02	<1.0	<1.0	6.2	141	<3.0	<0.4	1340	<0.02	<0.02	<2.0	<1	1410	<0.3	4.5	991	0.13	<1.0	11	<0.04	<0.6	29.2	3.7
Plot 28	03-Jun-15	15867150603102	72	<0.10	<0.050	68	<0.40	---	14	<0.020	<1.0	<0.50	6.6	79	<0.50	<0.80	870	<0.050	<0.10	<1.0	<0.50	---	<0.20	4	990	0.039	<1.0	1.4	<0.040	<1.0	20	0.24
Plot 40	15-May-08	15867080515111	343	<0.1	0.128	103	<0.5	---	19	0.18	<1.0	<1.0	6.4	204	<3.0	<0.4	538	0.07	0.1	<2.0	<1	94.9	<0.3	7.2	973	0.05	1.6	15	<0.04	<0.6	31.2	<0.1
Plot 40	12-Jun-09	15867090612125	215	<0.1	<0.050	78	<0.5	---	20	0.02	<1.0	<1.0	3.8	124	<3.0	<0.4	538	0.08	0.06	<2.0	<1	1440	<0.3	4.9	1630	<0.02	<1.0	10	<0.04	<0.6	13.9	<0.1
Plot 40	25-May-10	15867100525138	261	<0.1	<0.050	111	<0.5	---	23	0.03	<1.0	<1.0	5.1	170	<3.0	<0.4	1160	0.03	<0.02	<2.0	<1	1630	<0.3	6.4	1790	<0.02	<1.0	11	<0.04	<0.6	36.2	<0.1
Plot 40	31-May-11	15867110531150	314	<0.1	<0.050	116	<0.5	---	22	<0.02	<1.0	<1.0	4.9	186	<3.0	<0.4	1160	<0.02	0.05	<2.0	<1	1520	<0.3	6.1	1340	<0.02	<1.0	13	<0.04	<0.6	32.1	0.7
Plot 40	01-Jun-12	15867120601162	324	<0.1	<0.050	102	<0.5	---	9	0.05	<1.0	<1.0	2.9	175	<3.0	<0.4	835	0.04	<0.02	<2.0	<1	1140	<0.3	6.1	1300	<0.02	<1.0	16	0.05	<0.6	29.6	<0.1
Plot 40	05-Jun-13	15867130605175	277	2.1	<0.050	96.5	<0.5	---	27	0.06	<1.0	<1.0	5.6	160	<3.0	<0.4	780	<0.02	<0.02	<2.0	<1	1030	<0.3	7.2	1080	<0.02	<1.0	13	<0.04	<0.6	32.4	3.3
Plot 40	29-May-14	15867140529187	305	<0.1	<0.050	106	<0.5	---	<2	<0.02	1.2	<1.0	5.4	189	2	<0.4	1000	0.36	0.14	<2.0	<1	253	<0.3	6.4	1210	<0.02	<1.0	14	<0.04	<0.6	39.1	<0.1
Plot 41	15-May-08	15867080515112	291	<0.1	0.074	70.3	<0.5	---	20	0.03	<1.0	<1.0	4.9	172	<3.0	<0.4	594	0.04	0.06	<2.0	<1	124	<0.3	6.4	1110	<0.02	1.4	10	<0.04	<0.6	37.7	<0.1
Plot 41	12-Jun-09	15867090612126	120	<0.1	<0.050	53.5	<0.5	---	18	<0.02	<1.0	<1.0	3.5	77	<3.0	<0.4	653	0.02	0.03	<2.0	<1	1200	<0.3	4.7	1570	<0.02	<1.0	6	<0.04	<0.6	12.4	<0.1
Plot 41	26-May-10	15867100526139	179	<0.1	<0.050	70.7	<0.5	---	22	<0.02	<1.0	<1.0	4.4	105	<3.0	<0.4	759	<0.02	<0.02	<2.0	<1	1110	<0.3	5.4	2030	<0.02	<1.0	7	<0.04	<0.6	25.1	<0.1
Plot 41	31-May-11	15867110531151	197	<0.1	<0.050	95.3	<0.5	---	21	<0.02	<1.0	<1.0	4.1	128	<3.0	<0.4	1250	<0.02	0.04	<2.0	<1	1070	<0.3	5.8	1300	<0.02	<1.0	9	<0.04	<0.6	25.3	0.6
Plot 41	01-Jun-12	15867120601163	276	<0.1	<0.050	82.7	<0.5	---	14	<0.02	<1.0	<1.0	2	139	<3.0	<0.4	805	0.03	<0.02	<2.0	<1	1000	<0.3	6.5	1360	<0.02	<1.0	11	<0.04	<0.6	25.7	<0.1
Plot 41	05-Jun-13	15867130605176	212	2.1	<0.050	80.7	<0.5	---	27	<0.02	<1.0	<1.0	4.3	117	<3.0	<0.4	1120	0.02	<0.02	<2.0	<1	987	<0.3	4.8	1110	<0.02	<1.0	9	<0.04	<0.6	27.9	4.1
Plot 41	31-May-14	15867140531188	165	<0.1	<0.050	94	<0.5	---	<2	<0.02	<1.0	<1.0	3.7	108	<0.5	<0.4	1690	0.24	0.05	<2.0	<1	149	<0.3	6.2	1190	0.03	<1.0	10	<0.04	<0.6	31.6	<0.1
Plot 70	15-May-08	15867080515103	896	<0.1	0.161	87.4	<0.5	---	18	<0.02	2.3	<1.0	4.7	397	<3.0	<0.4	822	0.04	0.06	4.7	<1	136	<0.3	6.2	1020	0.02	1.3	32	<0.04	1.2	30.1	0.3
Plot 70a	12-Jun-09	15867090612115	339	<0.1	<0.050	55.6	<0.5	---	14	<0.02	<1.0	<1.0	3.8	193	<3.0	<0.4	743	<0.02	0.03	<2.0	<1	2180	<0.3	4.6	1450	<0.02	<1.0	17	<0.04	<0.6	15.6	<0.1
Plot 70b	12-Jun-09	15867090612123	259	<0.1	<0.050	89.1	<0.5	---	14	<0.02	<1.0	<1.0	4.6	147	<3.0	<0.4	1090	<0.02	0.05	<2.0	<1	1680	<0.3	4.8	1470	0.06	<1.0	11	<0.04	<0.6	14.5	<0.1
Plot 70c	12-Jun-09	15867090612124	219	<0.1	<0.050	82.4	<0.5	---	16	<0.02	<1.0	<1.0	3.4	110	<3.0	<0.4	909	<0.02	0.04	<2.0	<1	1800	<0.3	4.8	1390	<0.02	<1.0	10	<0.04	<0.6	14.7	<0.1
Plot 70	25-May-10	15867100525130	224	<0.1	<0.050	70.9	<0.5	---	19	<0.02	<1.0	<1.0	3.8	117	<3.0	<0.4	1110	<0.02	<0.02	<2.0	<1	1600	<0.3	4	1970	<0.02	<1.0	8	<0.04	<0.6	27.6	<0.1
Plot 70	31-May-11	15867110531142	281	<0.1	<0.050	87.1	<0.5	---	18	<0.02	<1.0	<1.0	3.9	147	<3.0	<0.4	1260	<0.02	0.03	<2.0	<1	730	<0.3	4.5	1300	<0.02	<1.0	11	<0.04	<0.6	26	0.5
Plot 70	01-Jun-12	15867120601154	334	<0.1	<0.050	87	<0.5	---	10	<0.02	<1.0	<1.0	1.5	157	<3.0	<0.4	1300	<0.02	<0.02	<2.0	<1	1040	<0.3	4	1310	<0.02	<1.0	13	<0.04	<0.6	28.5	<0.1
Plot 70	05-Jun-13	15867130605167	763	2.1	<0.050	101	<0.5	---	29	<0.02	<1.0	<1.0	6.7	273	<3.0	0.6	714	0.02	<0.02	<2.0	<1	2300	<0.3	6.2	1190	<0.02	<1.0	30	0.04	<0.6	25.4	4
Plot 70	31-May-14	15867140531179	258	<0.1	0.075	98.6	<0.5	---	<2	<0.02	1	<1.0	3.8	141	<0.5	<0.4	1240	0.18	<0.02	<2.0	<1	515	<0.3	4.6	1140	<0.02	<1.0	9	<0.04	<0.6	30.3	<0.1
Plot 70	04-Jun-15	15867150604115	240	0.13	<0.050	79	<0.40	---	25	<0.020	3.7	<0.50	11	230	<0.50	<0.80	1200	<0.050	<0.10	3.3	<0.50	---	<0.20	<10	1000	0.095	<1.0	2.4	<0.040	<1.0	31	0.5
Plot 70	02-Jun-16	15867160602112	51	<0.10	<0.050	68	<0.40	---	13	<0.020	<1.0	<0.50	2.8	39	<0.50	<0.80	770	<0.050	<0.10	<1.0	<0.50	---	<0.20	2.4	730	<0.020	<1.0	<1.0	<0.040	<1.0	20	0.42
Plot 70	01-Jun-17	15867170601112	61	<0.12	<0.050	61	<0.40	---	14	<0.020	<1.0	<0.50	3.4	50	<0.50	<0.80	880	<0.050	<0.10	<1.0	<0.50	---	<0.20	3.1	850	<0.026	<1.0	<1.0	<0.040	<1.0	20	0.44
Plot 70	31-May-18	15867180531111	150	<0.26	<0.10	87	<0.40	---	17	<0.040	<1.0	<0.50	3.1	120	<0.50	<1.6	1400	0.13	<0.050	<1.0	<0.50	---	<0.20	4.3	1100	<0.052	<1.0	1.5	<0.080	<1.0	25	<1.0
Plot 70	01-Jun-19	15867190601141	91.8	<0.010	0.026	83.1	<0.010	<0.010	18.8	<0.0050	0.093	0.047	3.16	90.5	0.053	<0.50	969	0.0108	<0.020	0.52	<0.050	---	<0.0050	4.44	1160	0.0069	<0.10	1.37	0.0029	0.12	24.6	<0.20
Plot 70	02-Jun-20	15867200602105	77.1	<0.010	<0.020	78.9	<0.010	<0.010	16.0	<0.0050	0.105	0.032	3.16	64	0.044	<0.50	1170	0.0168	0.022	0.38	<0.050	---	<0.0050	3.38	1190	0.0104	<0.10	0.99	<0.0020	<0.10	23.9	<0.20
Plot 70	08-Jun-21	15867210608104	98	<0.010	0.025	89.5	<0.010	<0.010	21.1	<0.0050	0.126	0.041	3.78	89.4	0.056	<0.50	1650	0.0107	<0.020	0.51	<0.050	---	<0.0050	4.03	1070	0.0113	<0.10	1.35	0.003	0.12	27	<0.60
Plot 70	07-Jun-22	15867220607105	90.2	<0.010	0.03	86.7	<0.010	<0.010	15.0	0.0053	0.123	0.042	4.03	92.5	0.065	<0.50	1100	0.0122	0.021	0.51	<0.050	---	<0.0050	3.75	1110	0.0163	0.37	1.47	0.0032	0.11	25.5	<0.20
Plot 70	19-Jun-23	15867230619101	89.5	0.012	0.022	97.7	<0.010	<0.010	18.9	0.0083	0.107	0.033	3.21	76.6	0.062	<0.50	1320	0.0157	<0.020	0.4	<0.050	---	<0.0050	4.05	1150	0.0162	<0.10	1.04	0.0024	<0.10	30.3	<0.20

TABLE G3

Historical Labrador Tea Leaves Quality Results - Metals

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	MSI Sample Number	Al mg/kg	Sb mg/kg	As mg/kg	Ba mg/kg	Be mg/kg	Bi mg/kg	B mg/kg	Cd mg/kg	Cr mg/kg	Co mg/kg	Cu mg/kg	Fe mg/kg	Pb mg/kg	Li mg/kg	Mn mg/kg	Hg mg/kg	Mo mg/kg	Ni mg/kg	Se mg/kg	Si mg/kg	Ag mg/kg	Sr mg/kg	S mg/kg	Tl mg/kg	Sn mg/kg	Ti mg/kg	U mg/kg	V mg/kg	Zn mg/kg	Zr mg/kg
Plot 71	15-May-08	15867080515104	184	<0.1	0.062	94.1	<0.5	---	20	<0.02	<1.0	<1.0	4.2	146	<3.0	<0.4	1190	0.03	0.06	<2.0	<1	96.7	<0.3	5.7	1020	<0.02	1.3	6	<0.04	<0.6	35.4	0.1
Plot 71	12-Jun-09	15867090612116	90.2	<0.1	<0.050	77	<0.5	---	17	<0.02	<1.0	<1.0	3.3	66	<3.0	<0.4	831	0.02	0.03	<2.0	<1	1010	<0.3	5.8	1130	<0.02	<1.0	5	<0.04	<0.6	15	<0.1
Plot 71	25-May-10	15867100525131	127	<0.1	<0.050	111	<0.5	---	25	<0.02	<1.0	<1.0	5.5	84	<3.0	<0.4	782	<0.02	<0.02	<2.0	<1	1940	<0.3	11.7	1660	<0.02	<1.0	5	<0.04	<0.6	32.5	<0.1
Plot 71	31-May-11	15867110531143	254	<0.1	<0.050	116	<0.5	---	26	<0.02	<1.0	<1.0	4.3	149	<3.0	<0.4	1300	<0.02	0.1	<2.0	<1	966	<0.3	7.1	1080	0.04	<1.0	11	<0.04	<0.6	29.3	2.4
Plot 71	01-Jun-12	15867120601155	161	<0.1	<0.050	127	<0.5	---	12	<0.02	<1.0	<1.0	1.6	82	<3.0	<0.4	1210	0.02	<0.02	<2.0	<1	1020	<0.3	7.4	1120	<0.02	<1.0	7	<0.04	<0.6	25.7	<0.1
Plot 71	05-Jun-13	15867130605168	473	2.2	<0.050	92.2	<0.5	---	37	0.04	<1.0	<1.0	4.2	172	<3.0	<0.4	1350	0.03	<0.02	<2.0	<1	1790	<0.3	7.7	892	0.02	<1.0	21	<0.04	<0.6	30.5	47.2
Plot 71	31-May-14	15867140531180	145	<0.1	<0.050	80.7	<0.5	---	2	<0.02	<1.0	<1.0	3.3	102	<0.5	<0.4	1020	0.2	<0.02	<2.0	<1	346	<0.3	6.5	880	<0.02	<1.0	6	<0.04	<0.6	22.7	<0.1
Plot 71	04-Jun-15	15867150604114	89	<0.10	<0.050	120	<0.40	---	21	<0.020	<1.0	<0.50	4.4	88	<0.50	<0.80	1500	<0.050	<0.10	<1.0	<0.50	---	<0.20	7	840	0.023	<1.0	1.2	<0.040	<1.0	28	0.2
Plot 71	02-Jun-16	15867160602111	67	<0.10	<0.050	86	<0.40	---	16	<0.020	<1.0	<0.50	2.9	49	<0.50	<0.80	870	0.06	<0.10	<1.0	<0.50	---	<0.20	5.1	610	<0.020	<1.0	<1.0	<0.040	<1.0	19	3.1
Plot 71	01-Jun-17	15867170601111	34	<0.12	<0.050	67	<0.40	---	14	<0.020	<1.0	<0.50	1.8	51	<0.50	<0.80	710	<0.050	<0.10	<1.0	<0.50	---	<0.20	5.1	620	<0.026	<1.0	<1.0	<0.040	<1.0	15	0.34
Plot 71	31-May-18	15867180531110	95	<0.26	<0.10	82	<0.40	---	21	<0.040	<1.0	<0.50	2.9	75	<0.50	<1.6	980	0.082^	<0.050	<1.0	<0.50	---	<0.20	6.7	930	<0.052	<1.0	1.4	<0.080	<1.0	19	<1.0
Plot 71	01-Jun-19	15867190601139	62	<0.010	0.025	86.4	<0.010	<0.010	21.2	<0.0050	0.302	0.043	2.75	72.5	0.042	<0.50	957	0.0196	<0.020	0.44	<0.050	---	<0.0050	6.35	910	0.0061	<0.10	1.25	0.0032	0.1	19.6	<0.20
Plot 71	03-Jun-20	15867200604112	48.8	<0.010	0.022	89.2	<0.010	<0.010	19.1	<0.0050	0.1	0.036	2.75	77.5	0.056	<0.50	740	0.0216	0.032	0.33	<0.050	---	<0.0050	8.1	980	0.0046	<0.10	1.18	0.0032	<0.10	21.1	<0.20
Plot 71	09-Jun-21	15867210609111	54	<0.010	0.023	110	<0.010	<0.010	23.8	<0.0050	0.096	0.042	3.35	71.9	0.056	<0.50	1420	0.0185	0.023	0.39	<0.050	---	<0.0050	8.01	1010	0.0131	<0.10	1.27	0.003	<0.10	23.3	<0.20
Plot 71	06-Jun-22	15867220606104	66.6	<0.010	0.034	119	<0.010	<0.010	25.5	<0.0050	0.103	0.064	3.17	84.9	0.054	<0.50	1390	0.0172	<0.020	0.60	<0.050	---	<0.0050	8.45	900	0.0303	<0.10	1.14	0.0031	0.1	25.6	<0.20
Plot 71	19-Jun-23	15867230619104	66	<0.010	0.029	119	<0.010	<0.010	25.3	0.0123	0.091	0.043	2.38	72.2	0.057	<0.50	1350	0.0227	0.021	0.43	<0.050	---	<0.0050	8.45	860	0.0512	<0.10	1.55	0.0027	<0.10	25.3	<0.20
Plot 109	15-May-08	15867080515105	186	<0.1	0.107	87.9	<0.5	---	19	0.14	<1.0	<1.0	4.7	117	<3.0	<0.4	575	<0.02	0.07	<2.0	<1	98.2	<0.3	5.3	979	0.02	1.4	7	<0.04	<0.6	31.1	<0.1
Plot 109	12-Jun-09	15867090612117	76.2	<0.1	<0.050	79.8	<0.5	---	14	<0.02	<1.0	<1.0	3.3	53	<3.0	<0.4	439	0.02	0.05	<2.0	<1	794	<0.3	4.9	1300	<0.02	<1.0	3	<0.04	<0.6	15.9	<0.1
Plot 109	26-May-10	15867100526132	199	<0.1	<0.050	121	<0.5	---	18	0.03	<1.0	<1.0	5.2	198	<3.0	<0.4	769	<0.02	<0.02	<2.0	<1	1480	<0.3	8.3	1770	<0.02	<1.0	8	<0.04	<0.6	29.4	<0.1
Plot 109	31-May-11	15867110531144	202	<0.1	<0.050	85.2	<0.5	---	18	<0.02	<1.0	<1.0	4.6	126	<3.0	<0.4	515	0.19	0.09	<2.0	<1	1480	<0.3	7.1	1150	0.06	<1.0	8	<0.04	<0.6	22.4	1
Plot 109	01-Jun-12	15867120601156	169	<0.1	<0.050	90.6	<0.5	---	9	<0.02	<1.0	<1.0	1.4	88	<3.0	<0.4	725	<0.02	<0.02	<2.0	<1	750	<0.3	4.6	933	<0.02	<1.0	6	<0.04	<0.6	21.2	<0.1
Plot 109	05-Jun-13	15867130605169	228	2.3	<0.050	82.1	<0.5	---	29	0.11	<1.0	<1.0	6.5	153	4.2	<0.4	820	0.04	0.1	<2.0	<1	1100	<0.3	6.1	1050	<0.02	<1.0	20	<0.04	<0.6	43.1	4.4
Plot 109	30-May-14	15867140530181	125	<0.1	<0.050	92.4	<0.5	---	3	<0.02	<1.0	<1.0	3.5	79	0.8	<0.4	785	0.28	0.03	<2.0	<1	331	<0.3	4.9	1060	0.03	<1.0	6	<0.04	<0.6	25	<0.1
Plot 109	04-Jun-15	15867150604108	76	<0.10	<0.050	55	<0.40	---	15	<0.020	<1.0	<0.50	6.8	82	0.73	<0.80	520	<0.050	<0.10	<1.0	<0.50	---	<0.20	4.6	930	<0.020	<1.0	2.2	<0.040	<1.0	21	<0.20
Plot 109	31-May-16	15867160531106	52	<0.10	<0.050	58	<0.40	---	14	<0.020	<1.0	<0.50	2.5	37	<0.50	<0.80	380	<0.050	<0.10	<1.0	<0.50	---	<0.20	4.2	710	<0.020	<1.0	<1.0	<0.040	<1.0	17	0.81
Plot 109	31-May-17	15867170531105	50	<0.12	0.18	64	<0.40	---	11	<0.020	<1.0	<0.50	2.1	41	<0.50	<0.80	360	<0.050	<0.10	<1.0	<0.50	---	<0.20	3.6	690	<0.026	<1.0	<1.0	<0.040	<1.0	16	0.72
Plot 109	30-May-18	15867180530106	96	<0.26	<0.10	83	<0.40	---	21	<0.040	<1.0	<0.50	3.6	73	<0.50	<1.6	920	0.07^	0.056	<1.0	<0.50	---	<0.20	4.5	1100	<0.052	<1.0	1.1	<0.080	<1.0	24	<1.0
Plot 109	30-May-19	15867190530115	68.6	0.018	0.091	89.7	<0.010	0.051	20.2	0.0063	0.115	0.035	3.12	70	0.421	<0.50	762	0.0128	0.037	0.81	<0.050	---	<0.0050	5.42	1060	0.0339	<0.10	1.8	<0.0020	<0.10	22.2	<0.20
Plot 109	03-Jun-20	15867200603109	56.2	0.03	0.037	74.8	<0.010	0.014	17.3	0.0071	0.174	0.028	3.03	56.6	0.638	<0.50	584	0.0200	0.032	0.57	<0.050	---	<0.0050	5.17	1100	0.0057	<0.10	1.67	<0.0020	<0.10	21.8	<0.20
Plot 109	08-Jun-21	15867210608107	49.3	<0.010	0.031	93.0	<0.010	<0.010	18.8	<0.0050	0.100	0.022	3.29	49.5	0.124	<0.50	617	0.0146	0.037	0.76	<0.050	---	<0.0050	5.18	980	0.0140	<0.10	0.89	<0.0020	<0.10	22.9	<0.20
Plot 109	07-Jun-22	15867220607108	70.6	<0.010	0.043	97.8	<0.010	0.012	18.6	0.0065	0.141	0.031	3.43	84.2	0.228	<0.50	673	0.0194	0.056	0.75	<0.050	---	<0.0050	5.56	1040	0.0069	0.11	1.33	0.0028	<0.10	24.7	<0.20
Plot 109	20-Jun-23	15867230620107	72	<0.010	<0.020	102	<0.010	<0.010	17.7	0.0089	0.074	0.03	2.7	57.7	0.089	<0.50	587	0.0165	0.035	0.98	<0.050	---	<0.0050	5.29	970	0.0575	<0.10	0.75	<0.0020	<0.10	22.5	<0.20
Plot 110	15-May-08	15867080515106	176	<0.1	0.061	94.4	<0.5	---	20	<0.02	<1.0	<1.0	4.4	122	<3.0	<0.4	637	0.04	0.05	<2.0	<1	125	<0.3	7.7	1060	<0.02	1.4	6	<0.04	<0.6	32.4	<0.1
Plot 110	12-Jun-09	15867090612118	116	<0.1	<0.050	58.6	<0.5	---	18	<0.02	<1.0	<1.0	3.7	73	<3.0	<0.4	509	<0.02	<0.02	<2.0	<1	933	<0.3	5.7	1290	<0.02	<1.0	5	<0.04	<0.6	13.9	<0.1
Plot 110	26-May-10	15867100526133	149	<0.1	<0.050	78.3	<0.5	---	24	<0.02	<1.0	<1.0	4.5	94	<3.0	<0.4	884	0.02	<0.02	<2.0	<1	1440	<0.3	5	2000	<0.02	<1.0	5	<0.04	<0.6	24.9	<0.1
Plot 110	31-May-11	15867110531145	232	<0.1	<0.050	69.9	<0.5	---	22	<0.02	<1.0	<1.0	4.7	144	<3.0	<0.4	904	<0.02	0.05	<2.0	<1	991	<0.3	6.9	1290	<0.02	<1.0	10	<0.04	<0.6	24.5	0.8
Plot 110	01-Jun-12	15867120601157	150	<0.1	<0.050	95.1	<0.5	---	10	<0.02	<1.0	<1.0	1.4	82	<3.0	<0.4	836	0.02	<0.02	<2.0	<1	967	<0.3	8.4	1060	<0.02	<1.0	6	<0.04	<0.6	22.9	<0.1
Plot 110	04-Jun-13	15867130604170	187	2.2	<0.050	106	<0.5	---	30	<0.02	<1.0	<1.0	5.4	111	<3.0	<0.4	854	0.04	<0.02	<2.0	<1	1090	<0.3	8.2	1260	<0.02	<1.0	8	<0.04	<0.6	36.7	3.7
Plot 110	30-May-14	15867140530182	121	<0.1	0.063	100	<0.5	---	3	<0.02	<1.0	<1.0	3.7	79	2.7	<0.4	926	0.18	0.04	<2.0	<1	233	<0.3	10.7	1190	<0.02	<1.0	8	<0.04	<0.6	37.4	<0.1
Plot 110	04-Jun-15	15867150604110	93	0.18	<0.050	94	<0.40	---	19	<0.020	<1.0	<0.50	12	100	<0.50	<0.80	920	<0.050	<0.10	<1.0	<0.50	---	<0.20	6.6	1100	<0.020	<1.0	1.7	<0.040	<1.0	29	1.3
Plot 110	31-May-16	15867160531108	52	<0.10	<0.050	44	<0.40	---	11	<0.020	<1.0	<0.50	2.2	40	<0.50	<0.80	410	<0.050	<0.10	<1.0	<0.50	---	<0.20	2.9	680	<0.020	<1.0	<1.0	<0.040	<1.0	13	<0.20
Plot 110	31-May-17	15867170531107	33	<0.12	0.058	52	<0.40	---	10	<0.020	<1.0	<0.50	1.8	33	<0.50	<0.80	440	<0.050	<0.10	<1.0	<0.50	---	<0.20	4.3	570	<0.026	<1.0	<1.0	<0.040	<1.0	14	0.33
Plot 110	30-May-18	15867180530107	110	<0.26	<0.10	77	<0.40	---	19	<0.040	<1.0	<0.50	3.2	74	<0.50	<1.6	1000	0.11^	<0.050	<1.0	<0.50	---	<0.20	5.5	1100	<0.052	<1.0	1.2	<0.080	<1.0	22	<1.0
Plot 110	30-May-19	15867190530118	67.9	<0.010	0.023	79.8	<0.010	<0.010	22.5	<0.0050	0.347	0.04	3.39	71.9	0.072	<0.50	725	0.0123	<0.020	0.51	<0.050	---	<0.0050	6.34	1170	<0.0020	<0.10	1.59	0.0024	<0.10	20.9	<0.20
Plot 110	03-Jun-20	15867200603111	46.2	<0.010	<0.020	96.4	<0.010	<0.010	20.5	<0.0050	0.078	0.037	3.11	60.6	0.075	<0.50	907	0.0197	0.027	0.29	<0.050	---	<0.0050	8.31	1180	0.0071	<0.10	1.01	<0.0020	<0.10	23.5	<0.20
Plot 110	08-Jun-21	15867210608109	55.6	<0.010	<0.020	96.7	<0.010	<0.010	22.3	<0.0050	0.070	0.034	3.20	63.3	0.052	<0.50	791	0.0093	0.026	0.41	<0.050	---	<0.0050	8.18	1240	0.0046	<0.10	0.97	0.0032	<0.10	23	<0.20
Plot 110	07-Jun-22	15867220607110	68.6	<0.010	0.042	109	<0.010	<0.010	23.5	<0.0050	0.146	0.047	3.67	91.4	0.093	<0.50	1030	0.0216	0.042	0.43	<0.050	---	<0.0050	8.35	1200	0.0025	<0.10	1.54	0.0031	0.1	26.9	<0.20
Plot 110	20-Jun-23	15867230620109	81.6	<0.010	0.024	102	<0.010	<0.010	23.9	0.0085	0.097	0.05	3.24	83.2	0.066	<0.50	970	0.0188	<0.020	0.65	<0.050	---	<0.0050	8.28	1150	0.0045	<0.10	1.58	0.002	<0.10	28.8	<0.20
Plot 114	15-May-08	15867080515108	256	<0.1	0.093	95	<0.5	---	16	0.08	<1.0	<1.0	5.4	167	<3.0	<0.4	1000	0.04	0.09	<2.0	<1	131	<0.3	8.8	1070	<0.02	1.5	12	<0.04	<0.6	30.6	<0.1
Plot 114	12-Jun-09	15867090612119	127	<0.1	<0.050	81.3	<0.5	---	14	<0.02	<1.0	<1.0	4.1	89	<3.0	<0.4	643	0.07	0.05	<2.0	<1	1120	<0.3	5	1390	<0.02	<1.0	8	<0.04	<0.6	16.6	<0.1
Plot 114	26-May-10	15867100526134	233	<0.1	<0.050	131	<0.5	---	20	0.02	<1.0	<1.0	4.4	142	<3.0	<0.4	1070	<0.02	<0.02	<2.0	<1	1700	<0.3	8.7	1980	<0.02	<1.0	10	<0.04	<0.6	31.2	<0.1
Plot 114	31-May-11	15867110531146	187	<0.1	<0.050	96.1	<0.5	---	16	<0.02	<1.0	<1.0	4.1	113	<3.0	<0.4	610	<0.02	0.04	<2.0	<1	959	<0.3	5.8	1040	<0.02	<1.0	8	<0.04	<0.6	20.3	0.6
Plot 114	01-Jun-12	15867120601158	199	<0.1	<0.050	103	<0.5	---	8	0.02	<1.0	<1.0	2.4	102	<3.0	<0.4	786	0.04	<0.02	<2.0	<1	836	<0.3	6.4	974	<0.02	<1.0	8	<0.04	<0.6	22.9	<0.1
Plot 114	04-Jun-13	15867130604171	187	2.3	<0.050	90.4	<0.5	---	31	0.05	<1.0	<1.0	5.7	118	<3.0	<0.4	743	0.04	0.06	<2.0	<1	653	<0.3	7.6	1240	<0.02	<1.0	8	<0.04	<0.6	27.4	7.4
Plot 114	31-May-14	15867140531183	126	<0.1	0.074	102	<0.5	---	<2	<0.02	<1.0	<1.0	4.1	86	1.2	<0.4	710	0.14	0.03	<2.0	<1	348	<0.3	7.5	1020	<0.02	<1.0	7	<0.04	<0.6	31.2	<0.1
Plot 114	04-Jun-15	15867150604107	120	<0.10	<0.050	85	<0.40	---	16	0.037	<1.0	<0.50	4.9	100	<0.50	<0.80	620	<0.050	<0.10	1.1	<0.50	---	<0.20	6.8	1000	0.047	<1.0	2	<0.040	<1.0	25	<0.20
Plot 114	01-Jun-16	15867160601110	67	<0.10	<0.050	66	<0.40	---	19	<0.020	<1.0	<0.50	3.9	54	<0.50	<0.80	420	<0.050	<0.10	1.4	<0.50	---	<0.20	5	960	<0.020	<1.0	1	<0.040	<1.0	22	<0.20
Plot 114	31-May-17	15867170531104	61	<0.12	0.084	80	<0.40	---	13	<0.020	<1.0	<0.50	2.9	50	<0.50	<0.80	470	<0.050	<0.10	<1.0	<0.50	---	<0.20	5.1	860	<0.026	<1.0	1.1	<0.040	<1.0	20	0.92
Plot 114	30-May-18	15867180530104	130	<0.26	<0.10	98	<0.40	---	17	<0.040	<1.0	<0.50	4.6	110	<0.50	<1.6	740	<0.050	0.063	1.2	<0.50	---	<0.20	7.6	1100	<0.052	<1.0	1.7	<0.080	<1.0	25	<1.0
Plot 114	31-May-19	15867190531124	70	0.017	0.048	94.1	<0.010	0.015	16.6	0.0163	0.243	0.051	4.23	84.5	0.352	<0.50	586	0.0196	0.045	0.81	<0.050	---	<0.0050	8.98	1160	0.0062	<0.10	1.91	0.0028	0.1	27.4	<0.20
Plot 114	03-Jun-20	15867200603107	77.5	0.019	0.036	103	<0.010	0.014	14.2	0.0163	0.124	0.079	3.91	87.4	0.734	<0.50	646	0.0362	0.039	0.89	<0.050	---	<0.0050	9.19	1310	0.0048	<0.10	1.6	0.0031	0.11	30.2	<0.20
Plot 114	08-Jun-21	15867210608106	82.6	0.017	0.053	107	<0.010	0.015	21.5	0.0131	0.219	0.056	4.48	84.2	0.499	<0.50	1650	0.0348	0.048	0.98	<0.050	---	<0.0050	9.10	1120	0.0173	<0.10	1.65	0.0021	<0.10	29.2	0.28
Plot 114	07-Jun-22	15867220607107	53.9	0.011	0.049	107	<0.010	0.015	16.6	0.0173	0.103	0.048	4.14	83.2	0.292	<0.50	710	0.0215	0.054	0.59	<0.050	---	<0.0050	9.87	1160	<0.0020	0.14	1.50	0.0027	<0.10	29.1	<0.20
Plot 114	20-Jun-23	15867230620106	97.8	<0.010	0.041	82.7	<0.010	<0.010	22.9	0.0181	0.134	0.109	3.71	86.1	0.24	<0.50	551	0.0225	0.026	1.52	<0.050	---	<0.0050	6.5	1210	0.0086	<0.10	1.59	0.0025	0.11	26.8	<0.20

TABLE G3

Historical Labrador Tea Leaves Quality Results - Metals

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	MSI Sample Number	Al mg/kg	Sb mg/kg	As mg/kg	Ba mg/kg	Be mg/kg	Bi mg/kg	B mg/kg	Cd mg/kg	Cr mg/kg	Co mg/kg	Cu mg/kg	Fe mg/kg	Pb mg/kg	Li mg/kg	Mn mg/kg	Hg mg/kg	Mo mg/kg	Ni mg/kg	Se mg/kg	Si mg/kg	Ag mg/kg	Sr mg/kg	S mg/kg	Tl mg/kg	Sn mg/kg	Ti mg/kg	U mg/kg	V mg/kg	Zn mg/kg	Zr mg/kg
Plot 117	15-May-08	15867080515107	155	<0.1	0.071	56.7	<0.5	---	15	0.02	<1.0	<1.0	4.6	97	<3.0	<0.4	578	0.03	0.06	<2.0	<1	83.5	<0.3	5.3	966	<0.02	1.5	6	<0.04	<0.6	28.8	<0.1
Plot 117	12-Jun-09	15867090612120	87	<0.1	<0.050	40.6	<0.5	---	12	<0.02	<1.0	<1.0	3.5	66	<3.0	<0.4	580	0.02	0.03	<2.0	<1	955	<0.3	5.1	1230	<0.02	<1.0	5	<0.04	<0.6	11.7	<0.1
Plot 117	26-May-10	15867100526135	221	<0.1	<0.050	76.5	<0.5	---	26	<0.02	<1.0	<1.0	5.5	130	<3.0	<0.4	1020	0.03	<0.02	<2.0	<1	1360	<0.3	8.3	1840	<0.02	<1.0	9	<0.04	<0.6	26.9	<0.1
Plot 117	31-May-11	15867110531147	151	<0.1	<0.050	56.2	<0.5	---	14	<0.02	<1.0	<1.0	18.6	90	<3.0	<0.4	717	<0.02	0.03	<2.0	<1	582	<0.3	6	1140	<0.02	<1.0	6	<0.04	<0.6	32.2	0.4
Plot 117	01-Jun-12	15867120601159	137	<0.1	<0.050	44.8	<0.5	---	8	<0.02	<1.0	<1.0	1.7	63	<3.0	<0.4	688	0.02	<0.02	<2.0	<1	780	<0.3	5.4	999	<0.02	<1.0	4	<0.04	<0.6	18.5	<0.1
Plot 117	04-Jun-13	15867130604172	162	2.1	<0.050	64.8	<0.5	---	24	<0.02	<1.0	<1.0	4.3	86	<3.0	<0.4	1050	0.02	<0.02	<2.0	<1	718	<0.3	6.2	1080	<0.02	<1.0	6	<0.04	<0.6	21.9	4.4
Plot 117	31-May-14	15867140531184	119	<0.1	0.052	77.9	<0.5	---	<2	<0.02	<1.0	<1.0	3.6	66	<0.5	<0.4	1090	0.2	0.02	<2.0	<1	170	<0.3	7.5	1100	<0.02	<1.0	4	<0.04	<0.6	30	<0.1
Plot 117	04-Jun-15	15867150604111	76	<0.10	<0.050	94	<0.40	---	13	<0.020	<1.0	<0.50	6.9	62	<0.50	<0.80	660	<0.050	<0.10	1	<0.50	---	<0.20	5	900	0.057	<1.0	1.3	<0.040	<1.0	19	0.21
Plot 117	01-Jun-16	15867160601109	50	0.18	<0.050	41	<0.40	---	13	<0.020	<1.0	<0.50	2.8	39	<0.50	<0.80	490	<0.050	<0.10	<1.0	<0.50	---	<0.20	4.4	830	<0.020	<1.0	<1.0	<0.040	<1.0	16	<0.20
Plot 117	31-May-17	15867170531103	51	<0.12	<0.050	47	<0.40	---	11	<0.020	<1.0	<0.50	2.5	42	<0.50	<0.80	440	<0.050	<0.10	<1.0	<0.50	---	<0.20	4.4	760	<0.026	<1.0	<1.0	<0.040	<1.0	15	1.1
Plot 117	30-May-18	15867180530105	120	<0.26	<0.10	70	<0.40	---	16	<0.040	<1.0	<0.50	3.6	110	<0.50	<1.6	680	0.26	0.078	<1.0	<0.50	---	<0.20	7	1200	<0.052	<1.0	1.3	<0.080	<1.0	22	2.5
Plot 117	31-May-19	15867190531123	79.7	<0.010	0.02	90.9	<0.010	<0.010	17	<0.0050	0.219	0.056	3.62	66	0.07	<0.50	733	0.0144	<0.020	0.76	<0.050	---	<0.0050	7.35	1090	0.0109	0.13	1.16	0.0022	<0.10	20	<0.20
Plot 117	03-Jun-20	15867200603106	58.9	<0.010	<0.020	56.4	<0.010	<0.010	13.9	<0.0050	0.062	0.049	3.15	56.5	0.092	<0.50	527	0.0226	<0.020	0.47	<0.050	---	<0.0050	5.53	1250	0.0063	<0.10	0.85	<0.0020	<0.10	18.9	<0.20
Plot 117	08-Jun-21	15867210608105	95.0	<0.010	0.034	79.7	<0.010	<0.010	17.8	<0.0050	0.111	0.060	3.31	88.4	0.104	<0.50	599	0.0085	0.028	0.77	<0.050	---	<0.0050	6.15	1140	0.0399	<0.10	2.36	0.0021	0.15	20.1	<0.20
Plot 117	07-Jun-22	15867220607106	82.3	<0.010	0.035	76.2	<0.010	<0.010	17.2	<0.0050	0.108	0.065	3.91	77.7	0.076	<0.50	687	0.0171	0.021	0.91	<0.050	---	<0.0050	7.70	1050	0.0053	0.15	1.17	0.0024	<0.10	22.0	<0.20
Plot 117	20-Jun-23	15867230620105	103	<0.010	<0.020	96.4	<0.010	<0.010	19.4	0.0123	0.085	0.094	3.58	78.5	0.072	<0.50	693	0.0182	<0.020	1.31	<0.050	---	<0.0050	9.03	1210	0.0035	<0.10	1.53	0.0021	<0.10	25.4	<0.20
Plot 123	15-May-08	15867080515109	149	<0.1	<0.050	78.8	<0.5	---	17	<0.02	<1.0	<1.0	4.5	84	<3.0	<0.4	948	0.02	0.04	<2.0	<1	125	<0.3	4.3	976	<0.02	1.4	5	<0.04	<0.6	26.1	<0.1
Plot 123	12-Jun-09	15867090612121	83.9	<0.1	<0.050	77.5	<0.5	---	16	<0.02	<1.0	<1.0	2.8	57	<3.0	<0.4	913	0.02	0.04	<2.0	<1	1040	<0.3	5	1270	<0.02	<1.0	4	<0.04	<0.6	11.2	<0.1
Plot 123	26-May-10	15867100526136	80	<0.1	<0.050	71.6	<0.5	---	15	<0.02	<1.0	<1.0	3.4	50	<3.0	<0.4	1220	<0.02	<0.02	<2.0	<1	784	<0.3	4.3	1610	<0.02	<1.0	3	<0.04	<0.6	19	<0.1
Plot 123	31-May-11	15867110531148	206	<0.1	<0.050	79.3	<0.5	---	17	<0.02	<1.0	<1.0	6.3	119	3.9	<0.4	838	<0.02	0.04	<2.0	<1	953	<0.3	5.4	1060	<0.02	3.2	9	<0.04	<0.6	20.8	0.5
Plot 123	01-Jun-12	15867120601160	142	<0.1	<0.050	74.8	<0.5	---	10	<0.02	<1.0	<1.0	1.4	62	<3.0	<0.4	794	<0.02	<0.02	<2.0	<1	909	<0.3	4.5	1380	<0.02	<1.0	5	<0.04	<0.6	16.8	<0.1
Plot 123	04-Jun-13	15867130604173	125	2.2	<0.050	78.2	<0.5	---	24	<0.02	<1.0	<1.0	4.4	72	<3.0	<0.4	1210	0.03	<0.02	<2.0	<1	783	<0.3	5	1040	<0.02	<1.0	5	<0.04	<0.6	21.6	4.3
Plot 123	30-May-14	15867140530185	115	<0.1	0.101	88.5	<0.5	---	<2	<0.02	<1.0	<1.0	3.6	80	<0.5	<0.4	1110	0.09	0.03	<2.0	<1	191	<0.3	5.4	1060	<0.02	<1.0	4	<0.04	<0.6	21.6	<0.1
Plot 123	03-Jun-15	15867150603101	100	0.12	<0.050	77	<0.40	---	16	<0.020	<1.0	<0.50	9.5	110	<0.50	<0.80	1100	<0.050	0.17	1	<0.50	---	<0.20	4.7	1100	<0.020	<1.0	1.9	<0.040	<1.0	21	0.43
Plot 123	30-May-16	15867160530103	27	<0.10	<0.050	34	<0.40	---	7.6	<0.020	<1.0	<0.50	1.4	20	<0.50	<0.80	370	<0.050	<0.10	<1.0	<0.50	---	<0.20	1.8	430	<0.020	<1.0	<1.0	<0.040	<1.0	<10	<0.20
Plot 123	31-May-17	15867170531109	53	<0.12	<0.050	68	<0.40	---	14	<0.020	<1.0	<0.50	3.7	48	<0.50	<0.80	600	<0.050	<0.10	<1.0	<0.50	---	<0.20	4.6	740	<0.026	<1.0	<1.0	<0.040	<1.0	15	0.51
Plot 123	31-May-18	15867180531109	140	<0.26	<0.10	79	<0.40	---	17	<0.040	<1.0	<0.50	4	76	<0.50	<1.6	1100	0.08^	<0.050	<1.0	<0.50	---	<0.20	6.3	1100	<0.052	<1.0	<1.0	<0.080	<1.0	20	<1.0
Plot 123	30-May-19	15867190530114	53.1	<0.010	<0.020	92	<0.010	<0.010	17.6	<0.0050	0.221	0.033	3.36	52.3	0.032	<0.50	1090	0.0138	<0.020	0.72	<0.050	---	<0.0050	5.28	1080	0.0054	0.1	0.85	<0.0020	<0.10	21.1	<0.20
Plot 123	02-Jun-20	15867200602103	45.8	<0.010	<0.020	95.3	<0.010	<0.010	15.9	<0.0050	0.053	0.03	3.06	43.3	0.052	<0.50	1070	0.0167	<0.020	0.79	<0.050	---	<0.0050	4.85	1080	<0.0020	<0.10	0.64	<0.0020	<0.10	20.1	<0.20
Plot 123	07-Jun-21	15867210607102	55.5	<0.010	<0.020	76.0	<0.010	<0.010	17.0	<0.0050	0.071	0.033	3.15	50.6	0.044	<0.50	722	0.0112	0.022	0.69	<0.050	---	<0.0050	5.77	1230	<0.0020	<0.10	0.91	<0.0020	<0.10	19.7	<0.20
Plot 123	06-Jun-22	15867220606103	64.4	<0.010	0.025	83.4	<0.010	<0.010	19.1	<0.0050	0.243	0.039	3.73	72.9	0.051	<0.50	953	0.0145	0.033	0.81	<0.050	---	<0.0050	4.86	1090	0.0039	0.13	1.22	0.0024	<0.10	21.0	<0.20
Plot 123	19-Jun-23	15867230619102	71.3	<0.010	<0.020	109	<0.010	<0.010	18.4	0.0114	0.093	0.043	3.04	65.9	0.057	<0.50	1350	0.014	<0.020	1	<0.050	---	<0.0050	6.11	1110	<0.0020	<0.10	1.04	0.002	<0.10	23.2	<0.20
Plot 402	15-May-08	15867080515110	226	<0.1	0.067	71.6	<0.5	---	19	<0.02	<1.0	<1.0	4.3	123	<3.0	<0.4	953	0.02	0.04	<2.0	<1	94.1	<0.3	8.9	1010	<0.02	1.4	8	<0.04	<0.6	28.4	<0.1
Plot 402	12-Jun-09	15867090612122	136	<0.1	<0.050	47.4	<0.5	---	18	<0.02	<1.0	<1.0	3.9	94	<3.0	<0.4	370	<0.02	0.03	<2.0	<1	1210	<0.3	6.6	1300	<0.02	<1.0	6	<0.04	<0.6	14.6	<0.1
Plot 402	12-Jun-09	15867090612127	138	<0.1	<0.050	55.7	<0.5	---	16	<0.02	<1.0	<1.0	3.7	93	<3.0	<0.4	426	0.02	0.03	<2.0	<1	1380	<0.3	7.8	1510	<0.02	<1.0	7	<0.04	<0.6	13.8	<0.1
Plot 402	25-May-10	15867100525137	209	<0.1	<0.050	115	<0.5	---	21	<0.02	6	<1.0	5.1	131	<3.0	<0.4	847	<0.02	0.05	6.4	<1	1300	<0.3	13.8	2060	<0.02	<1.0	7	<0.04	<0.6	27.7	<0.1
Plot 402	31-May-11	15867110531149	364	<0.1	<0.050	92.8	<0.5	---	19	<0.02	<1.0	<1.0	4.3	197	<3.0	<0.4	575	<0.02	0.03	<2.0	<1	1720	<0.3	8.9	1250	<0.02	<1.0	16	<0.04	<0.6	24	1
Plot 402	01-Jun-12	15867120601161	375	<0.1	<0.050	69.4	<0.5	---	11	<0.02	<1.0	<1.0	1.3	171	<3.0	<0.4	855	0.02	<0.02	<2.0	<1	1980	<0.3	9.1	1010	<0.02	<1.0	15	<0.04	<0.6	19.6	<0.1
Plot 402	04-Jun-13	15867130604174	215	2.3	<0.050	66.5	<0.5	---	31	<0.02	<1.0	<1.0	4.8	115	<3.0	<0.4	552	0.02	<0.02	<2.0	<1	1020	<0.3	8.2	1080	<0.02	<1.0	9	<0.04	<0.6	23.6	4.5
Plot 402	31-May-14	15867140531186	169	<0.1	<0.050	78.9	<0.5	---	<2	<0.02	<1.0	<1.0	3.3	92	<0.5	<0.4	967	0.25	0.05	<2.0	<1	<4.00	<0.3	9.5	1120	0.04	<1.0	7	<0.04	<0.6	27.4	<0.1
Plot 402	04-Jun-15	15867150604112	110	0.11	<0.050	93	<0.40	---	19	<0.020	<1.0	<0.50	5.8	100	<0.50	<0.80	810	<0.050	<0.10	<1.0	<0.50	---	<0.20	8.8	1100	<0.020	<1.0	1.9	<0.040	<1.0	23	2
Plot 402	30-May-16	15867160530101	70	<0.10	<0.050	50	<0.40	---	16	<0.020	<1.0	<0.50	2.8	56	<0.50	<0.80	420	<0.050	<0.10	<1.0	<0.50	---	<0.20	5.4	820	<0.020	<1.0	<1.0	<0.040	<1.0	17	0.38
Plot 402	31-May-17	15867170531101	47	<0.12	<0.050	69	<0.40	---	14	<0.020	<1.0	<0.50	2.4	57	<0.50	<0.80	710	<0.050	<0.10	<1.0	<0.50	---	<0.20	7.8	830	<0.026	<1.0	<1.0	<0.040	<1.0	20	2
Plot 402	29-May-18	15867180529101	420	<0.26	<0.10	89	<0.40	---	20	<0.040	<1.0	<0.50	10*	340	<0.50	<1.6	810	<0.050	0.083	<1.0	<0.50	---	<0.20	11	1300	<0.052	<1.0	2.3	<0.080	<1.0	36	1.2
Plot 402	30-May-19	15867190530110	94.3	<0.010	0.03	99.3	<0.010	<0.010	20.9	<0.0050	0.127	0.062	3.5	102	0.06	<0.50	814	0.0149	0.022	0.54	<0.050	---	<0.0050	10.4	1250	0.0127	<0.10	1.86	0.004	0.15	26.7	<0.20
Plot 402	02-Jun-20	15867200602101	69.8	<0.010	<0.020	87.5	<0.010	<0.010	20.0	<0.0050	0.074	0.042	3.32	68.7	0.047	<0.50	843	0.0201	<0.020	0.43	<0.050	---	<0.0050	9.38	1180	0.0055	<0.10	1.12	0.0028	<0.10	23.8	<0.20
Plot 402	07-Jun-21	15867210607101	85.9	<0.010	0.029	88.6	<0.010	<0.010	28.1	0.0065	0.116	0.054	3.95	84.9	0.054	<0.50	863	0.0135	0.033	0.40	<0.050	---	<0.0050	10.6	1420	0.0053	<0.10	1.74	0.0032	<0.10	27.2	<0.20
Plot 402	06-Jun-22	15867220606101	103	<0.010	0.042	95.4	<0.010	<0.010	24.9	0.0059	0.150	0.074	3.86	118	0.084	<0.50	620	0.0190	0.023	0.71	<0.050	---	<0.0050	10.1	1080	0.012	0.18	1.97	0.0054	0.16	25.0	<0.20
Plot 402	20-Jun-23	15867230620110	93.5	<0.010	0.026	95.4	<0.010	<0.010	26.1	0.0104	0.108	0.051	3.41	91.3	0.057	<0.50	949	0.0191	<0.020	0.49	<0.050	---	<0.0050	12.3	1240	0.0076	<0.10	1.7	0.0026	0.12	29.4	<0.20

Notes:

* - result is from recheck completed on subsample submitted in July 2018.

^ - results are from rechecks completed on subsamples submitted in October 2018.

TABLE G4

Historical Labrador Tea Leaves Quality Results - Macronutrients

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	MSI Sample Number	N %	Ca mg/kg	Mg mg/kg	K mg/kg	Na mg/kg	P mg/kg	S mg/kg
Plot 4	15-May-08	15867080515101	---	5510	1280	3330	58	1080	1020
Plot 4	12-Jun-09	15867090612113	1.74	5980	1360	4130	<50	1330	1270
Plot 4	25-May-10	15867100525128	1.71	6220	1840	5500	<50	1310	1720
Plot 4	31-May-11	15867110531140	1.81	8130	1960	5560	56	1540	1270
Plot 4	01-Jun-12	15867120601152	1.58	6300	1360	4570	53	1360	1040
Plot 4	05-Jun-13	15867130605164	1.95	6710	1990	5780	59	1620	1040
Plot 4	29-May-14	15867140529177	1.53	8480	1690	5950	<50	1560	1390
Plot 4	03-Jun-15	15867150603106	1.54	6200	1700	4600	<50	1200	1000
Plot 4	31-May-16	15867160531105	1.45	4600	1100	2600	<50	810	750
Plot 4	31-May-17	15867170531108	1.55	6100	1300	3500	<50	1000	920
Plot 4	29-May-18	15867180529103	1.56	6800	1700	5400	63	1500	1200
Plot 4	31-May-19	15867190531130	1.37	5810	1660	4410	38	1300	1100
Plot 4	03-Jun-20	15867200603108	1.45	6110	1590	4830	<20	1570	1270
Plot 4	08-Jun-21	15867210608110	1.63	6930	1850	4870	31	1500	1160
Plot 4	08-Jun-22	15867220608111	1.69	6790	1530	4630	24	1420	1120
Plot 4	19-Jun-23	15867230619103	1.59	7190	1570	3920	51	1270	1230
Plot 11	15-May-08	15867080515102	---	6310	1740	4050	<50	1250	975
Plot 11	12-Jun-09	15867090612114	1.87	5610	1240	4590	<50	1400	1590
Plot 11	26-May-10	15867100526129	1.67	7350	2300	6260	<50	1600	1770
Plot 11	31-May-11	15867110531141	1.58	6170	1760	5260	<50	1390	1260
Plot 11	01-Jun-12	15867120601153	1.66	5650	1390	4810	<50	1310	1040
Plot 11	05-Jun-13	15867130605165	2.07	6400	1670	5760	<50	1610	1190
Plot 11	31-May-14	15867140531178	1.55	6420	1380	5090	<50	1370	1060
Plot 11	03-Jun-15	15867150603103	1.62	5200	1400	4200	<50	1200	970
Plot 11	31-May-16	15867160531104	1.51	4200	1100	2800	<50	890	770
Plot 11	01-Jun-17	15867170601110	1.64	4500	940	3100	<64	890	730
Plot 11	31-May-18	15867180531112	1.4	6500	1600	4900	<50	1400	1200
Plot 11	01-Jun-19	15867190601132	1.45	5640	1620	4460	<20	1420	1130
Plot 11	02-Jun-20	15867200602104	1.29	6150	1530	5220	<20	1480	1280
Plot 11	07-Jun-21	15867210607103	1.71	6760	1730	4910	30	1600	1200
Plot 11	08-Jun-22	15867220608112	1.79	6150	1440	4870	21	1490	1200
Plot 11	29-Jun-23	15867230629112	1.53	7380	1740	4610	<20	1100	1190
Plot 28	05-Jun-13	15867130605166	1.74	6520	1610	5430	<50	1400	991
Plot 28	03-Jun-15	15867150603102	1.4	5900	1600	4300	<50	1300	990
Plot 40	15-May-08	15867080515111	---	5630	1530	3690	57	1320	973
Plot 40	12-Jun-09	15867090612125	1.75	6250	1430	4130	<50	1350	1630
Plot 40	25-May-10	15867100525138	1.44	7490	2220	6190	<50	1530	1790
Plot 40	31-May-11	15867110531150	1.71	8060	1950	5570	<50	1530	1340
Plot 40	01-Jun-12	15867120601162	1.57	5950	1370	4430	<50	1390	1300
Plot 40	05-Jun-13	15867130605175	1.72	5940	1760	5340	<50	1590	1080
Plot 40	29-May-14	15867140529187	1.59	7440	1710	5130	<50	1430	1210

TABLE G4

Historical Labrador Tea Leaves Quality Results - Macronutrients

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	MSI Sample Number	N %	Ca mg/kg	Mg mg/kg	K mg/kg	Na mg/kg	P mg/kg	S mg/kg
Plot 41	15-May-08	15867080515112	---	6130	1500	4190	54	1480	1110
Plot 41	12-Jun-09	15867090612126	1.83	5860	1390	4310	<50	1350	1570
Plot 41	26-May-10	15867100526139	1.44	6400	1900	5480	<50	1430	2030
Plot 41	31-May-11	15867110531151	1.55	6610	1660	5270	<50	1440	1300
Plot 41	01-Jun-12	15867120601163	1.66	5780	1390	5240	<50	1480	1360
Plot 41	05-Jun-13	15867130605176	1.77	5900	1690	5330	<50	1520	1110
Plot 41	31-May-14	15867140531188	1.57	7200	1440	4990	<50	1520	1190
Plot 70	15-May-08	15867080515103	---	5280	1460	3570	134	1250	1020
Plot 70a	12-Jun-09	15867090612115	1.79	5390	1290	3970	<50	1210	1450
Plot 70b	12-Jun-09	15867090612123	1.87	6400	1160	5180	56	1580	1470
Plot 70c	12-Jun-09	15867090612124	1.82	5380	1230	4120	<50	1260	1390
Plot 70	25-May-10	15867100525130	1.63	6050	1650	5250	<50	1500	1970
Plot 70	31-May-11	15867110531142	2.01	6570	1590	4910	<50	1630	1300
Plot 70	01-Jun-12	15867120601154	1.87	5790	1250	4690	<50	1510	1310
Plot 70	05-Jun-13	15867130605167	1.94	5820	1430	6890	172	1690	1190
Plot 70	31-May-14	15867140531179	1.57	6810	1260	4840	<50	1570	1140
Plot 70	04-Jun-15	15867150604115	1.82	6000	1400	4500	56	1300	1000
Plot 70	02-Jun-16	15867160602112	1.61	3800	940	2700	<50	870	730
Plot 70	01-Jun-17	15867170601112	1.6	4700	930	3300	<50	990	850
Plot 70	31-May-18	15867180531111	1.42	6200	1300	4500	<50	1400	1100
Plot 70	02-Jun-20	15867200602105	1.47	5630	1360	4720	<20	1560	1190
Plot 70	08-Jun-21	15867210608104	1.74	6200	1650	4680	32	1550	1070
Plot 70	07-Jun-22	15867220607105	1.71	4900	1300	4540	27	1560	1110
Plot 70	19-Jun-23	15867230619101	1.48	6430	1400	3640	33	1150	1210
Plot 71	15-May-08	15867080515104	---	5260	1460	3870	<50	1290	1020
Plot 71	12-Jun-09	15867090612116	1.62	5200	1220	4040	<50	1250	1130
Plot 71	25-May-10	15867100525131	1.41	6410	2250	6120	<50	1500	1660
Plot 71	31-May-11	15867110531143	0.887	6530	1680	4770	<50	1280	1080
Plot 71	01-Jun-12	15867120601155	1.44	5720	1280	4740	<50	1370	1120
Plot 71	05-Jun-13	15867130605168	1.45	6360	1420	4490	115	1160	892
Plot 71	31-May-14	15867140531180	1.31	6060	1150	4670	<50	1110	880
Plot 71	04-Jun-15	15867150604114	1.58	6900	1500	3400	<50	1000	840
Plot 71	02-Jun-16	15867160602111	1.24	4800	1000	2300	<50	750	610
Plot 71	01-Jun-17	15867170601111	1.23	4500	890	2500	<50	740	620
Plot 71	31-May-18	15867180531110	1.25	5700	1300	3800	52	1100	930
Plot 71	01-Jun-19	15867190601139	1.18	5270	1270	3640	23	1080	910
Plot 71	03-Jun-20	15867200604112	0.99	5680	1280	3930	<20	1200	980
Plot 71	09-Jun-21	15867210609111	1.31	6940	1420	4160	34	1200	1010
Plot 71	06-Jun-22	15867220606104	1.42	6530	1840	4050	25	1260	900
Plot 71	19-Jun-23	15867230619104	1.04	6420	1440	3480	<20	860	886

TABLE G4

Historical Labrador Tea Leaves Quality Results - Macronutrients

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	MSI Sample Number	N %	Ca mg/kg	Mg mg/kg	K mg/kg	Na mg/kg	P mg/kg	S mg/kg
Plot 109	15-May-08	15867080515105	---	5900	1330	3410	<50	1350	979
Plot 109	12-Jun-09	15867090612117	1.6	6040	1230	4290	<50	1300	1300
Plot 109	26-May-10	15867100526132	1.26	7300	2070	5960	<50	1520	1770
Plot 109	31-May-11	15867110531144	1.56	6270	1570	4720	<50	1350	1150
Plot 109	01-Jun-12	15867120601156	1.58	5560	1180	4620	<50	1260	933
Plot 109	05-Jun-13	15867130605169	1.78	6690	1400	5220	<50	1570	1050
Plot 109	30-May-14	15867140530181	1.46	6820	1490	4890	<50	1340	1060
Plot 109	04-Jun-15	15867150604108	1.66	5100	1400	4100	<50	1100	930
Plot 109	31-May-16	15867160531106	1.35	4200	1100	2700	<50	850	710
Plot 109	31-May-17	15867170531105	1.47	4400	930	2900	<50	830	690
Plot 109	30-May-18	15867180530106	1.43	5800	1200	4700	<50	1500	1100
Plot 109	30-May-19	15867190530115	1.3	5750	1510	4520	<20	1380	1060
Plot 109	03-Jun-20	15867200603109	1.11	5590	1290	4400	<20	1340	1100
Plot 109	08-Jun-21	15867210608107	1.39	5650	1350	4440	<20	1260	980
Plot 109	07-Jun-22	15867220607108	1.49	5720	1430	4440	27	1430	1040
Plot 109	20-Jun-23	15867230620107	1.28	6400	1440	3980	<20	970	1080
Plot 110	15-May-08	15867080515106	---	5720	1570	3640	<50	1410	1060
Plot 110	12-Jun-09	15867090612118	1.75	5960	1430	4360	<50	1290	1290
Plot 110	26-May-10	15867100526133	1.51	6570	2210	6150	<50	1550	2000
Plot 110	31-May-11	15867110531145	1.8	6500	1910	5480	<50	1490	1290
Plot 110	01-Jun-12	15867120601157	1.6	5560	1380	4970	<50	1370	1060
Plot 110	04-Jun-13	15867130604170	1.91	6940	1530	5890	<50	1640	1260
Plot 110	30-May-14	15867140530182	1.47	7080	1460	5130	<50	1390	1190
Plot 110	04-Jun-15	15867150604110	1.69	5700	1500	4600	<50	1300	1100
Plot 110	31-May-16	15867160531108	1.47	3700	860	2600	<50	790	680
Plot 110	31-May-17	15867170531107	1.65	3600	790	2300	<50	710	570
Plot 110	30-May-18	15867180530107	1.47	6200	1400	4600	<50	1300	1100
Plot 110	30-May-19	15867190530118	1.5	5660	1630	4770	64	1360	1170
Plot 110	03-Jun-20	15867200603111	1.29	6160	1420	4790	<20	1420	1180
Plot 110	08-Jun-21	15867210608109	1.54	6060	1520	5120	<20	1480	1240
Plot 110	07-Jun-22	15867220607110	1.83	6090	1500	4880	23	1530	1200
Plot 110	20-Jun-23	15867230620109	1.46	7340	1750	4160	<20	1150	1150

TABLE G4

Historical Labrador Tea Leaves Quality Results - Macronutrients

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	MSI Sample Number	N %	Ca mg/kg	Mg mg/kg	K mg/kg	Na mg/kg	P mg/kg	S mg/kg
Plot 114	15-May-08	15867080515108	---	5570	1470	4450	<50	1480	1070
Plot 114	12-Jun-09	15867090612119	1.77	5670	1410	4880	<50	1380	1390
Plot 114	26-May-10	15867100526134	1.37	6970	2110	6510	<50	1420	1980
Plot 114	31-May-11	15867110531146	1.52	6390	1410	4730	<50	1190	1040
Plot 114	01-Jun-12	15867120601158	1.59	5780	1130	4580	<50	1160	974
Plot 114	04-Jun-13	15867130604171	1.94	6450	1450	6380	<50	1640	1240
Plot 114	31-May-14	15867140531183	1.51	6320	1190	5250	<50	1200	1020
Plot 114	04-Jun-15	15867150604107	1.65	6100	1600	5100	<50	1300	1000
Plot 114	01-Jun-16	15867160601110	1.51	4800	1400	4200	<50	1200	960
Plot 114	31-May-17	15867170531104	1.63	4900	1000	3900	<50	990	860
Plot 114	30-May-18	15867180530104	1.63	6200	1500	5200	55	1500	1100
Plot 114	31-May-19	15867190531124	1.4	5290	1500	5220	20	1410	1160
Plot 114	03-Jun-20	15867200603107	1.46	5350	1410	5290	<20	1550	1310
Plot 114	08-Jun-21	15867210608106	1.7	6220	1650	5580	29	1490	1120
Plot 114	07-Jun-22	15867220607107	1.73	4930	1350	4960	<20	1490	1160
Plot 114	20-Jun-23	15867230620106	1.43	5570	1650	4290	<20	1210	1190
Plot 117	15-May-08	15867080515107	---	5750	1410	3640	<50	1300	966
Plot 117	12-Jun-09	15867090612120	1.69	5780	1140	4160	<50	1240	1230
Plot 117	26-May-10	15867100526135	1.55	7540	2180	6840	<50	1750	1840
Plot 117	31-May-11	15867110531147	1.59	6740	1580	4290	<50	1280	1140
Plot 117	01-Jun-12	15867120601159	1.54	5140	1280	4620	<50	1360	999
Plot 117	04-Jun-13	15867130604172	1.7	5870	1360	4680	<50	1390	1080
Plot 117	31-May-14	15867140531184	1.46	7110	1330	5110	<50	1420	1100
Plot 117	04-Jun-15	15867150604111	1.55	5300	1300	4100	<50	1100	900
Plot 117	01-Jun-16	15867160601109	1.55	5100	1100	3200	<50	1000	830
Plot 117	31-May-17	15867170531103	1.53	4400	940	3400	<50	950	760
Plot 117	30-May-18	15867180530105	1.56	6500	1500	4900	<50	1400	1200
Plot 117	31-May-19	15867190531123	1.57	5910	1580	4510	<20	1350	1090
Plot 117	03-Jun-20	15867200603106	1.28	5290	1450	4830	<20	1410	1250
Plot 117	08-Jun-21	15867210608105	1.15	5350	1510	5180	<20	1510	1140
Plot 117	07-Jun-22	15867220607106	1.85	5770	1380	4630	27	1430	1050
Plot 117	20-Jun-23	15867230620105	1.58	7990	1670	3750	<20	1210	1220

TABLE G4

Historical Labrador Tea Leaves Quality Results - Macronutrients

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	MSI Sample Number	N %	Ca mg/kg	Mg mg/kg	K mg/kg	Na mg/kg	P mg/kg	S mg/kg
Plot 123	15-May-08	15867080515109	---	5540	1340	3310	<50	1180	976
Plot 123	12-Jun-09	15867090612121	1.65	5250	1270	3410	<50	1150	1270
Plot 123	26-May-10	15867100526136	1.23	6000	1480	5120	<50	1270	1610
Plot 123	31-May-11	15867110531148	1.4	6170	1450	4400	<50	1160	1060
Plot 123	01-Jun-12	15867120601160	1.52	5450	1330	4880	<50	1280	1380
Plot 123	04-Jun-13	15867130604173	1.67	5530	1370	4450	<50	1220	1040
Plot 123	30-May-14	15867140530185	1.3	6610	1280	4800	<50	1170	1060
Plot 123	03-Jun-15	15867150603101	1.58	6000	1400	4300	<50	1200	1100
Plot 123	30-May-16	15867160530103	1.48	2600	550	1500	<50	490	430
Plot 123	31-May-17	15867170531109	1.55	4500	970	3200	<50	920	740
Plot 123	31-May-18	15867180531109	1.33	6200	1400	4300	<50	1300	1100
Plot 123	30-May-19	15867190530114	1.38	5680	1510	4630	<20	1290	1080
Plot 123	02-Jun-20	15867200602103	1.1	5880	1240	4580	<20	1240	1080
Plot 123	07-Jun-21	15867210607102	1.44	5600	1480	5210	21	1380	1230
Plot 123	06-Jun-22	15867220606103	1.45	5690	1380	4410	20	1360	1090
Plot 123	19-Jun-23	15867230619102	1.4	6800	1430	4120	<20	1110	1150
Plot 402	15-May-08	15867080515110	---	5680	1540	3650	<50	1350	1010
Plot 402	12-Jun-09	15867090612122	1.87	5810	1110	4550	<50	1290	1300
Plot 402	12-Jun-09	15867090612127	1.91	5720	1260	4450	<50	1290	1510
Plot 402	25-May-10	15867100525137	1.63	7970	2010	6870	<50	1720	2060
Plot 402	31-May-11	15867110531149	1.54	6550	1560	5650	<50	1340	1250
Plot 402	01-Jun-12	15867120601161	1.51	5120	1300	4760	<50	1210	1010
Plot 402	04-Jun-13	15867130604174	1.82	6120	1450	5370	<50	1380	1080
Plot 402	31-May-14	15867140531186	1.63	7060	1360	5110	<50	1360	1120
Plot 402	04-Jun-15	15867150604112	1.77	6100	1400	5300	<50	1300	1100
Plot 402	30-May-16	15867160530101	1.6	4700	1200	3100	<50	980	820
Plot 402	31-May-17	15867170531101	1.78	5200	1100	3400	<50	980	830
Plot 402	29-May-18	15867180529101	1.55	7700	1700	5400	120	1700	1300
Plot 402	30-May-19	15867190530110	1.57	6030	1620	5260	<20	1510	1250
Plot 402	02-Jun-20	15867200602101	1.33	6330	1400	5290	<20	1440	1180
Plot 402	07-Jun-21	15867210607101	1.61	6150	1760	6200	23	1730	1420
Plot 402	06-Jun-22	15867220606101	1.72	6490	1460	5300	35	1470	1080
Plot 402	20-Jun-23	15867230620110	1.37	7280	1730	4800	<20	1240	1340

TABLE G5

Historical Moss Bag Quality Results - Metals

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	MSI Sample Number	Al mg/kg	Sb mg/kg	As mg/kg	Ba mg/kg	Be mg/kg	B mg/kg	Cd mg/kg	Cr mg/kg	Co mg/kg	Cu mg/kg	Fe mg/kg	Pb mg/kg	Li mg/kg	Mn mg/kg	Hg mg/kg	Mo mg/kg	Ni mg/kg	Se mg/kg	Ag mg/kg	Sr mg/kg	S mg/kg	Tl mg/kg	Sn mg/kg	Ti mg/kg	U mg/kg	V mg/kg	Zn mg/kg	Zr mg/kg
Unexposed - Acid Washed																													
Unexposed Moss	03-Jul-19	15867190703001	188	0.032	0.21	2.91	<0.010	<1.0	<0.0050	0.5	0.089	0.63	423	2.87	<0.50	4.18	0.0287	0.331	0.42	0.071	0.0061	0.354	560	0.0022	3.58	5.25	0.0144	0.45	2.46	0.42
Unexposed Moss	03-Jul-19	15867190703002	209	0.033	0.216	2.97	<0.010	<1.0	<0.0050	0.54	0.086	0.72	445	3.4	<0.50	3.55	0.0283	0.331	0.37	0.063	0.0058	0.356	570	0.0024	2.73	5.39	0.0166	0.51	2.15	0.38
Unexposed Moss	03-Jul-19	15867190703003	210	0.028	0.218	2.64	<0.010	<1.0	<0.0050	0.537	0.088	0.77	448	3.05	<0.50	3.7	0.0298	0.327	0.4	0.066	0.0065	0.347	550	0.0021	3.42	5.74	0.0154	0.5	2.4	0.39
Unexposed Moss*	09-Jun-21	15867210610103	943	0.071	0.638	10.5	0.016	<1.0	0.0074	1.89	0.23	5.02	885	3.27	<0.50	3.74	0.0653	0.928	0.65	0.142	0.0192	1.55	980	0.0107	1.97	23	0.121	1.94	2.43	1.3
Unexposed Moss*	09-Jun-21	15867210610101	855	0.077	0.676	10.7	0.016	<1.0	0.0102	1.81	0.26	5.3	902	3.44	<0.50	4.78	0.0735	1.19	0.77	0.177	0.031	1.6	1090	0.0115	1.67	21.6	0.136	1.82	2.95	1.17
Unexposed Moss*	09-Jun-21	15867210610102	1080	0.066	0.605	10.8	0.017	<1.0	0.0073	2.05	0.229	4.75	889	3.25	<0.50	4.06	0.0644	0.799	0.67	0.145	0.0184	1.64	980	0.0127	2.19	23.3	0.118	2.13	2.53	1.36
Unexposed Moss	08-Jun-22	15867220608219	272	0.051	0.273	3.98	<0.010	<1.0	0.0142	0.766	0.132	1.49	331	0.544	<0.50	7.73	0.0375	0.436	0.45	0.079	0.0081	0.509	670	0.0035	0.47	8.02	0.0346	0.61	4.88	0.72
Unexposed Moss	08-Jun-22	15867220608220	254	0.048	0.26	3.53	<0.010	<1.0	0.0147	0.718	0.125	1.43	316	0.565	<0.50	7.36	0.0455	0.407	0.43	0.087	0.007	0.477	670	0.0027	0.35	7.69	0.0334	0.55	6.75	0.57
Unexposed Moss	08-Jun-22	15867220608221	250	0.047	0.258	3.77	<0.010	<1.0	0.0135	0.692	0.145	1.63	321	0.553	<0.50	8.63	0.0328	0.42	0.42	0.077	0.0064	0.448	630	<0.0020	0.41	7.65	0.0371	0.56	4.5	0.54
Unexposed Moss	21-Jun-23	15867230621216	259	0.042	0.25	4.08	<0.010	<1.0	0.0173	0.693	0.132	1.57	329	0.57	<0.50	8.92	0.0388	0.396	0.47	0.068	0.006	0.469	580	<0.0020	0.54	7.96	0.0298	0.55	5.16	0.5
Unexposed Moss	21-Jun-23	15867230621217	245	0.043	0.268	3.73	<0.010	<1.0	0.0155	0.632	0.138	1.35	329	0.507	<0.50	8.34	0.0355	0.356	0.43	0.075	0.0055	0.432	540	<0.0020	1.01	7.04	0.0288	0.5	4.99	0.52
Unexposed Moss	21-Jun-23	15867230621218	237	0.045	0.255	3.92	<0.010	<1.0	0.0178	0.592	0.14	1.56	319	0.571	<0.50	8.82	0.035	0.392	0.42	0.071	0.0058	0.405	530	<0.0020	0.37	6.7	0.0293	0.48	4.55	0.42
Zone 1																													
MB4	31-May-19	15867190531420	231	0.049	0.26	3.86	<0.010	<1.0	0.0175	0.504	0.115	0.99	419	2.9	<0.50	17.5	0.0419	0.327	0.4	0.063	0.0092	0.72	550	0.0066	3.01	6.63	0.0173	0.57	5.99	0.4
MB4*	08-Jun-21	15867210608411	1420	0.054	0.696	14.5	0.022	1.1	0.0142	3.02	0.234	2.56	865	3.22	<0.50	9.38	0.0771	0.938	0.82	0.137	0.0218	2.19	1070	0.0145	0.12	19.7	0.148	2.94	4.28	2.18
MB4	08-Jun-22	15867220608213	296	0.089	0.35	6.28	<0.010	1.4	0.0299	0.849	0.168	2.11	408	1.12	<0.50	30.7	0.0841	0.465	0.67	0.106	0.0117	1.22	700	0.0033	1.03	10.4	0.0419	0.69	9.48	0.69
MB4	19-Jun-23	15867230619202	310	0.071	0.298	5.76	<0.010	<1.0	0.0281	0.741	0.165	1.9	406	0.795	<0.50	25.5	0.0543	0.396	0.58	0.082	0.01	1.15	670	0.0037	0.41	9.78	0.0406	0.72	8.08	0.65
MB5	31-May-19	15867190531418	226	0.065	0.308	3.44	<0.010	<1.0	0.0189	0.53	0.102	1.25	429	2.92	<0.50	11.8	0.0444	0.337	0.43	0.075	0.0096	0.64	580	0.0056	3.52	6.73	0.0172	0.56	6.25	0.4
MB5*	08-Jun-21	15867210608409	1130	0.064	0.714	12.9	0.017	<1.0	0.016	2.26	0.222	2.24	955	2.92	<0.50	5.51	0.0909	0.82	0.77	0.143	0.0196	1.86	1020	0.012	0.13	22	0.142	2.38	4.7	1.51
MB5	07-Jun-22	15867220607212	299	0.079	0.37	5.67	<0.010	1	0.029	0.771	0.173	2.2	402	1.37	<0.50	13.1	0.0852	0.489	0.59	0.098	0.012	0.922	770	0.0028	0.6	10.9	0.0418	0.7	9.1	0.68
MB5	19-Jun-23	15867230619203	273	0.072	0.282	4.97	<0.010	<1.0	0.0322	0.638	0.154	1.96	354	0.828	<0.50	15.1	0.056	0.402	0.44	0.076	0.011	0.93	660	0.0033	0.26	8.85	0.0335	0.61	7.51	0.56
MB15	30-May-19	15867190530413	213	0.051	0.25	4.25	<0.010	<1.0	0.0185	0.503	0.111	0.98	411	2.93	<0.50	42.2	0.0416	0.361	0.46	0.066	0.0081	0.992	560	0.0045	2.54	6.59	0.0168	0.54	6.53	0.4
MB15*	08-Jun-21	15867210608410	764	0.057	0.581	9.74	0.014	<1.0	0.011	1.89	0.192	1.88	1110	2.76	<0.50	28.9	0.0715	0.701	0.69	0.13	0.0167	1.65	1000	0.0091	0.12	21.6	0.118	1.81	4.78	1.58
MB15	07-Jun-22	15867220607210	286	0.069	0.286	5.12	<0.010	<1.0	0.0175	0.718	0.154	1.67	365	0.755	<0.50	10.9	0.0541	0.446	0.51	0.086	0.0083	0.775	610	0.0023	0.26	10.3	0.0353	0.65	5.14	0.65
MB15	19-Jun-23	15867230619207	380	0.085	0.325	8.54	<0.010	<1.0	0.0455	0.808	0.197	2.18	447	1.16	<0.50	61.3	0.0652	0.457	0.73	0.087	0.0129	1.93	670	0.0054	0.23	11.3	0.0423	0.87	12.1	0.74
Zone 2																													
MB1	01-Jun-19	15867190601422	215	0.038	0.197	3.22	<0.010	<1.0	0.0111	0.478	0.099	0.74	418	2.34	<0.50	24.6	0.0375	0.334	0.38	0.071	0.0074	0.683	580	0.0034	2.81	5.83	0.0163	0.53	3.14	0.41
MB1*	07-Jun-21	15867210607405	968	0.045	0.648	12.3	0.016	<1.0	0.0088	2.2	0.203	2.58	640	3.16	<0.50	7.03	0.078	0.787	0.71	0.135	0.0188	1.69	1060	0.0112	<0.10	16.5	0.151	2.5	2.49	1.78
MB1	08-Jun-22	15867220608216	335	0.068	0.289	6.33	<0.010	<1.0	0.0204	0.884	0.159	1.73	432	0.737	<0.50	22.3	0.059	0.487	0.63	0.087	0.0088	1.06	690	0.003	0.82	11.7	0.0408	0.76	6.73	0.83
MB1	19-Jun-23	15867230619208	396	0.057	0.273	9.77	0.01	<1.0	0.0445	0.763	0.201	1.93	436	0.706	<0.50	81.6	0.0584	0.39	0.74	0.083	0.01	2.51	690	0.0054	0.43	11.8	0.0419	0.88	10.4	0.66
MB2	01-Jun-19	15867190601426	204	0.036	0.209	3.19	<0.010	<1.0	0.0083	0.459	0.097	0.69	407	2.79	<0.50	13.6	0.0353	0.296	0.34	0.063	0.0077	0.614	550	0.0029	2.45	5.63	0.0152	0.49	2.93	0.37
MB2*	07-Jun-21	15867210607406	1240	0.077	0.616	12.8	0.02	<1.0	0.0053	2.43	0.213	1.73	988	1.95	<0.50	8.33	0.0635	0.729	0.8	0.129	0.0162	1.89	960	0.0129	<0.10	19.5	0.118	2.47	2.58	1.54
MB2	08-Jun-22	15867220608217	286	0.066	0.317	5.56	<0.010	1	0.0233	0.791	0.16	1.87	409	0.727	<0.50	25.2	0.0492	0.499	0.62	0.094	0.0083	0.862	770	0.0027	1.26	9.65	0.0395	0.63	6.39	0.7
MB2	19-Jun-23	15867230619209	242	0.053	0.247	5.05	<0.010	<1.0	0.0237	0.555	0.21	2.19	351	0.605	<0.50	22.3	0.0462	0.482	0.43	0.056	0.0081	0.892	720	0.0031	0.11	7.7	0.0318	0.55	5.75	0.51
MB9	30-May-19	15867190530411	200	0.038	0.202	3.55	<0.010	<1.0	0.0087	0.434	0.109	0.69	370	2.18	<0.50	20.1	0.0404	0.336	0.46	0.068	0.0068	0.662	530	0.003	2.45	6.06	0.0172	0.5	3.56	0.41
MB9*	07-Jun-21	15867210607403	967	0.048	0.651	11.8	0.018	<1.0	0.0069	2.24	0.191	2.07	884	2.66	<0.50	7.11	0.0678	0.826	0.7	0.142	0.0245	1.64	1080	0.0107	<0.10	20.5	0.132	2.21	2.7	1.7
MB9	06-Jun-22	15867220606203	299	0.059	0.29	4.96	<0.010	<1.0	0.0159	0.726	0.142	2.27	388	0.757	<0.50	14.6	0.0502	0.442	0.59	0.101	0.0075	0.879	650	<0.0020	3.6	10.5	0.039	0.65	5.09	0.71
MB9	19-Jun-23	15867230619201	279	0.067	0.323	4.98	<0.010	<1.0	0.0161	0.758	0.182	1.77	439	0.685	<0.50	13	0.0499	0.813	0.42	0.074	0.0089	0.73	780	0.0026	0.13	9.61	0.0402	0.61	4.89	0.65
MB11	01-Jun-19	15867190601424	200	0.046	0.193	2.94	<0.010	<1.0	0.0053	0.47	0.091	0.62	431	2.41	<0.50	31.1	0.0366	0.328	0.33	0.07	0.0161	0.528	590	0.0025	2.93	5.94	0.0153	0.51	2.83	0.36
MB11*	07-Jun-21	15867210607404	722	0.051	0.713	11.4	0.013	<1.0	<0.0050	2.1	0.191	1.61	1260	2.7	<0.50	5.77	0.0716	0.659	0.67	0.151	0.0202	1.56	1030	0.0078	0.11	19.6	0.141	1.81	2.02	1.82
MB11	08-Jun-22	15867220608218	313	0.059	0.303	5.23	<0.010	<1.0	0.0164	0.761	0.138	1.66	420	0.839	<0.50	16.6	0.0518	0.463	0.52	0.088	0.0074	0.873	640	0.0025	1.45	11	0.0478	0.73	5.25	0.75
MB11	29-Jun-23	15867230629218	312	0.053	0.258	5.44	0.01	<1.0	0.0213	0.697	0.156	1.75	383	0.655	<0.50	23.1	0.0463	0.407	0.59	0.1	0.0089	0.999	650	0.0032	0.87	9.29	0.039	0.71	6.36	0.77
MB14	30-May-19	15867190530409	258	0.044	0.199	4.27	<0.010	<1.0	0.0135	0.506	0.113	0.82	419	2.58	<0.50	73	0.037	0.312	0.43	0.073	0.009	0.828	520	0.004	3.32	7.08	0.0186	0.6	3.79	0.43
MB14*	07-Jun-21	15867210607402	921	0.055	0.63	16.3	0.018	1	0.0063	1.96	0.213	1.63	1230	2.35	<0.50	4.44	0.0658	0.591	0.74	0.131	0.0148	1.76	940	0.0112	0.14	23.1	0.12	2.08	2.87	1.52
MB14	06-Jun-22	15867220606202	296	0.062	0.291	4.58	<0.010	<1.0	0.0155	0.775	0.135	1.63	388	0.798	<0.50	11.5	0.0461	0.43	0.55	0.11	0.0085	0.789	650	<0.0020	0.26	10.1	0.0405	0.68	5.42	0.62
MB14	20-Jun-23	15867230620212	294	0.049	0.26	5.53	<0.010	<1.0	0.0199	0.72	0.153	1.55	383	0.572	<0.50	31	0.0448	0.365	0.47	0.08	0.0072	1.04	590	0.0027	0.33	9.18	0.0341	0.65	5.9	0.57
MB19	29-May-19	15867190529405	193	0.072	0.184	4.62	<0.010	<1.0	0.0109	0.562	0.107	0.74	379	2.38	<0.50	50.3	0.0298	0.323	0.4	0.064	0.0079	1.07	570	0.0035	2.84	5.94	0.0154	0.49	4.61	0.42
MB19*	09-Jun-21	15867210609414	790	0.049	0.562	14.1	0.015	1.5	0.021	2.04	0.198	2.63	832	2.79	<0.50	74	0.0671	0.69	0.89	0.124	0.0154	2.42	940	0.0097	<0.10	15.6	0.113	1.91	9.79	1.35
MB19	06-Jun-22	15867220606206	269	0.062	0.264	5.52	<0.010	<1.0	0.0195	0.706	0.158	1.76	354	0.647	<0.50	19.2	0.0498	0.449	0.53	0.086	0.0085	1	640	0.0023	0.68	9.75	0.0347	0.59	5.79	0.63
MB19	21-Jun-23	15867230621214	342	0.056	0.263	11.3	<0.010	<1.0	0.029	0.885	0.189	1.9	422	0.638	<0.50	128	0.0527	0.425	0.77	0.077	0.01	3.07	740	0.0044	0.21	9.8	0.0381	0.76	10.4	0.58
MB20	31-May-19	15867190531417	206	0.069	0.191	3.54	<0.010	<1.0	0.008	0.5	0.094	0.87	428	2.43	<0.50	23.7	0.0369	0.319	0.39	0.066	0.0076	0.619	540	0.0034	3.02	6.01	0.0146	0.52	3.38	0.38
MB20*	08-Jun-21	15867210608407	708	0.044	0.519	12.5	0.016	<1.0	0.0076	1.5	0.192	1.87	731	2.86	<0.50	5.63	0.0605	0.56	0.71	0.116	0.0121	1.41	840	0.008	<0.10	16.8	0.11	1.91	2.26	0.95
MB20	07-Jun-22	15867220607208	249	0.058	0.263	5.05	<0.010	<1.0	0.018	0.6	0.167	1.77	338	0.669	<0.50	13.5	0.048	0.494	0.5	0.089	0.007	0.821	610	<0.0020	0.42	8.95	0.0352	0.55	5.36	0.56
MB20	20-Jun-23	15867230620211	267	0.049	0.229	6.04	<0.010	<1.0	0.0269	0.588	0.175	1.64	357	0.581	<0.50	30.8	0.0453	0.413	0.46	0.066	0.0075	1.01	710	0.0025	0.14	8.11	0.0296	0.58	6.42	0.49

TABLE G5

Historical Moss Bag Quality Results - Metals

Veolia

W ½ 06-067-08 W5M

Sample Point	Sample Date	MSI Sample Number	Al mg/kg	Sb mg/kg	As mg/kg	Ba mg/kg	Be mg/kg	B mg/kg	Cd mg/kg	Cr mg/kg	Co mg/kg	Cu mg/kg	Fe mg/kg	Pb mg/kg	Li mg/kg	Mn mg/kg	Hg mg/kg	Mo mg/kg	Ni mg/kg	Se mg/kg	Ag mg/kg	Sr mg/kg	S mg/kg	Tl mg/kg	Sn mg/kg	Ti mg/kg	U mg/kg	V mg/kg	Zn mg/kg	Zr mg/kg
Zone 2																													
MB22	31-May-19	15867190531415	191	0.053	0.188	3.23	<0.010	<1.0	0.0075	0.434	0.09	0.63	401	2.67	<0.50	19.5	0.0384	0.348	0.35	0.067	0.0071	0.585	570	0.0027	3.62	5.54	0.0157	0.49	2.3	0.4
MB22*	08-Jun-21	15867210608408	927	0.061	0.6	12.8	0.017	1.2	0.0206	1.87	0.22	1.82	944	2.6	<0.50	58.4	0.0729	0.616	0.78	0.134	0.0174	2.1	940	0.0102	<0.10	21	0.132	2.13	5.1	1.2
MB22	07-Jun-22	15867220607209	275	0.069	0.271	5.38	<0.010	1	0.0212	0.686	0.164	1.74	368	0.721	<0.50	39.4	0.0534	0.421	0.58	0.084	0.0112	1.03	660	0.0024	2.3	8.99	0.0354	0.61	5.89	0.62
MB24	29-May-19	15867190529407	216	0.052	0.188	4.75	<0.010	<1.0	0.0094	0.47	0.107	0.73	383	2.98	<0.50	49.2	0.0314	0.316	0.45	0.069	0.0068	1.12	550	0.0034	2.51	6.26	0.0162	0.52	3.36	0.38
MB24*	07-Jun-21	15867210607401	1010	0.05	0.658	11.8	0.018	0.022	0.0073	2.29	0.214	1.94	1160	2.72	<0.50	5.73	0.0765	0.763	0.8	0.142	0.0178	1.75	1120	0.011	0.11	26	0.151	2.31	2.67	1.55
MB24	06-Jun-22	15867220606201	309	0.066	0.272	5.48	<0.010	<1.0	0.0222	0.735	0.172	1.73	413	0.812	<0.50	17	0.0498	0.45	0.57	0.104	0.0079	1.08	690	0.0025	0.22	10.9	0.0398	0.7	6.12	0.76
MB24	21-Jun-23	15867230621215	295	0.056	0.266	5.73	<0.010	<1.0	0.0369	0.714	0.16	1.63	375	0.643	<0.50	16.9	0.0446	0.401	0.46	0.075	0.0087	0.934	670	0.0028	0.15	8.34	0.0355	0.64	5.99	0.54
MB26	29-May-19	15867190529403	196	0.039	0.191	3.08	<0.010	<1.0	0.0098	0.445	0.094	0.72	382	2.79	<0.50	14.6	0.0359	0.323	0.36	0.068	0.0065	0.537	570	0.0029	3.73	5.77	0.0161	0.49	2.63	0.38
MB26*	09-Jun-21	15867210609413	743	0.051	0.51	11	0.015	<1.0	0.0107	1.59	0.202	1.74	838	2.2	<0.50	11.3	0.0606	0.723	0.67	0.111	0.0121	1.57	870	0.0083	<0.10	14.4	0.105	1.67	3.14	1.11
MB26	06-Jun-22	15867220606205	282	0.06	0.257	4.98	<0.010	<1.0	0.0191	0.611	0.148	1.65	377	0.627	<0.50	48.2	0.0529	0.451	0.51	0.074	0.0065	0.978	660	0.003	0.26	9.69	0.0362	0.62	6	0.55
MB50	29-May-19	15867190529402	232	0.039	0.183	4.44	<0.010	<1.0	0.0101	0.508	0.106	0.86	452	2.29	<0.50	89.7	0.0344	0.362	0.41	0.069	0.0066	1.22	560	0.0031	2.88	7.03	0.0171	0.56	3.6	0.41
MB50*	09-Jun-21	15867210609412	692	0.049	0.487	10.3	0.013	<1.0	0.007	1.47	0.174	1.67	833	2.33	<0.50	5.56	0.0638	0.779	0.6	0.11	0.0128	1.35	940	0.0073	<0.10	16.9	0.102	1.66	2.24	1.14
MB50	06-Jun-22	15867220606204	320	0.067	0.277	5.34	<0.010	<1.0	0.0193	0.677	0.193	1.81	412	0.723	<0.50	12.2	0.056	0.443	0.58	0.107	0.0065	1.09	660	0.0021	0.63	11.3	0.039	0.71	5.82	0.66
MB50	21-Jun-23	15867230621213	314	0.053	0.274	6.53	<0.010	<1.0	0.0235	0.865	0.167	1.67	379	0.614	<0.50	21	0.0445	0.399	0.49	0.079	0.0076	1.12	680	0.003	0.3	9.14	0.0357	0.67	8.16	0.56
MB71	01-Jun-19	15867190601429	212	0.041	0.197	5.25	<0.010	<1.0	0.0115	0.474	0.124	0.66	421	2.16	<0.50	43.5	0.0355	0.338	0.41	0.068	0.0067	1.27	560	0.0033	3.27	6.11	0.0177	0.54	3.67	0.43
MB71*	09-Jun-21	15867210609415	840	0.037	0.526	9.18	0.014	<1.0	0.0052	1.77	0.178	1.12	843	1.28	<0.50	8.24	0.0492	0.521	0.57	0.111	0.0164	1.37	730	0.0086	<0.10	16.2	0.0989	1.77	1.93	1.66
MB71	06-Jun-22	15867220606207	414	0.071	0.304	31.2	0.027	1.3	0.0827	0.767	0.555	1.54	479	0.808	<0.50	113	0.0469	0.489	1.09	0.116	0.0087	32.3	740	0.0035	1.22	11.5	0.138	0.76	12	0.81
MB71	19-Jun-23	15867230619210	286	0.058	0.272	7.54	<0.010	<1.0	0.027	0.637	0.175	1.68	375	0.581	<0.50	38.8	0.0498	0.429	0.48	0.074	0.0174	1.58	660	0.0029	0.36	9.65	0.0361	0.61	6.91	0.63
Fenceline Monitoring Sites																													
Site 1	08-Jun-22	15867220608214	322	0.131	0.382	8.24	0.011	<1.0	0.0727	0.974	0.27	3.03	476	2.1	<0.50	18.3	0.509	0.512	0.79	0.094	0.0178	1.73	690	0.0053	0.78	12.5	0.0422	0.83	66.7	0.79
Site 1	19-Jun-23	15867230619205	361	0.096	0.309	8.27	0.01	<1.0	0.0605	0.814	0.225	2.44	466	1.3	<0.50	20.2	0.072	0.455	0.67	0.071	0.014	1.48	670	0.0048	0.3	11.4	0.0404	0.84	63.4	0.66
Site 5	07-Jun-22	15867220607211	361	0.14	0.648	9.4	0.015	1.2	0.258	1.7	0.307	3.78	663	2.81	<0.50	20	0.0861	0.663	1.24	0.103	0.0291	1.97	690	0.008	1.07	17	0.0548	0.97	27.2	1.09
Site 5	19-Jun-23	15867230619206	403	0.089	0.432	8.65	0.013	<1.0	0.0503	1.04	0.29	3.5	694	1.6	<0.50	20.3	0.0805	0.532	1.01	0.09	0.0161	1.62	650	0.0066	0.23	14.9	0.0488	1.03	37.2	0.77
Site 9	08-Jun-22	15867220608215	539	0.455	1.23	20.3	0.017	2.2	0.202	2.33	0.427	15.9	850	14.1	<0.50	21.1	0.183	2.44	1.56	0.137	0.0724	3.03	920	0.0162	2.36	31	0.0586	1.38	131	1.09
Site 9	19-Jun-23	15867230619204	472	0.275	0.66	16	0.014	<1.0	0.151	1.58	0.337	9.85	690	10.3	<0.50	20	0.135	2.62	1.17	0.109	0.0703	2.44	620	0.0096	0.96	20.7	0.0518	1.16	92.6	0.83

*Batch of acid washed moss deployed in 2020 and collected in June 2021 had higher baseline metals levels.then other batches used in the program since 2019

APPENDIX H
Lichen Photographs

Lichen Sub-site 1-1

Lichen Sub-site 1-2

Lichen Sub-site 1-3

Lichen Sub-site 2-1

Lichen Sub-site 2-2

Lichen Sub-site 2-3

Lichen Sub-site 4-1

Lichen Sub-site 4-2

Lichen Sub-site 4-3

Lichen Sub-site 5-1

Lichen Sub-site 5-2

Lichen Sub-site 5-3

Lichen Sub-site 9-1

Lichen Sub-site 9-2

Lichen Sub-site 9-3

Lichen Sub-site 11-1

Lichen Sub-site 11-2

Lichen Sub-site 11-3

Lichen Sub-site 14-1

Lichen Sub-site 14-2

Lichen Sub-site 14-3

Lichen Sub-site 15-1

Lichen Sub-site 15-2

Lichen Sub-site 15-3

Lichen Sub-site 19-1

Lichen Sub-site 19-2

Lichen Sub-site 19-3

Lichen Sub-site 20-1

Lichen Sub-site 20-2

Lichen Sub-site 20-3

Lichen Sub-site 24-1

Lichen Sub-site 24-2

Lichen Sub-site 24-3

Lichen Sub-site 26-1

Lichen Sub-site 26-2

Lichen Sub-site 26-3

Lichen Sub-site 50-1

Lichen Sub-site 50-2

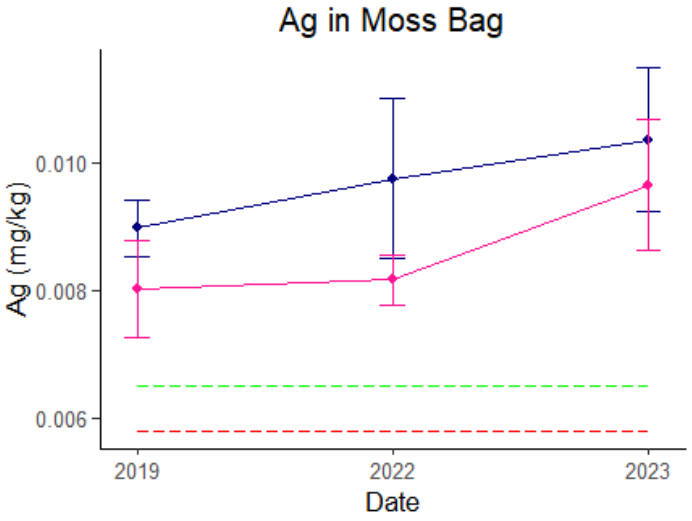
Lichen Sub-site 50-3

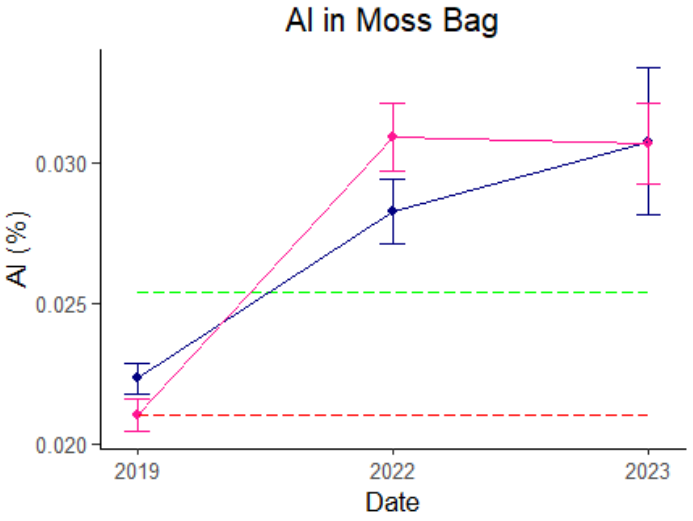
Lichen Sub-site 71-1

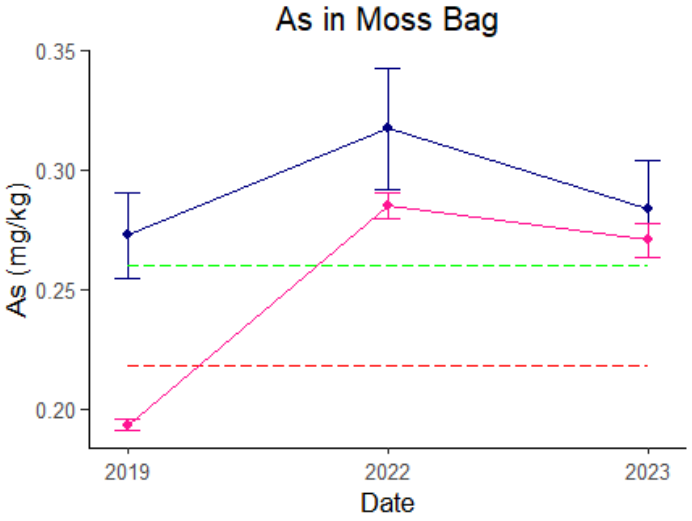
Lichen Sub-site 71-2

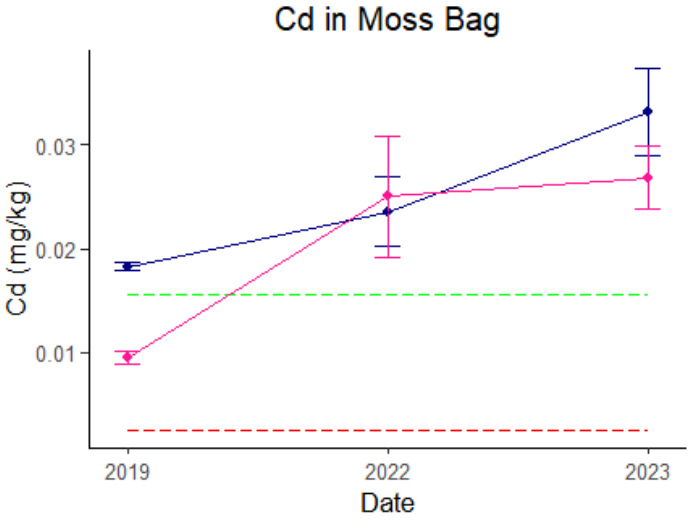
Lichen Sub-site 71-3

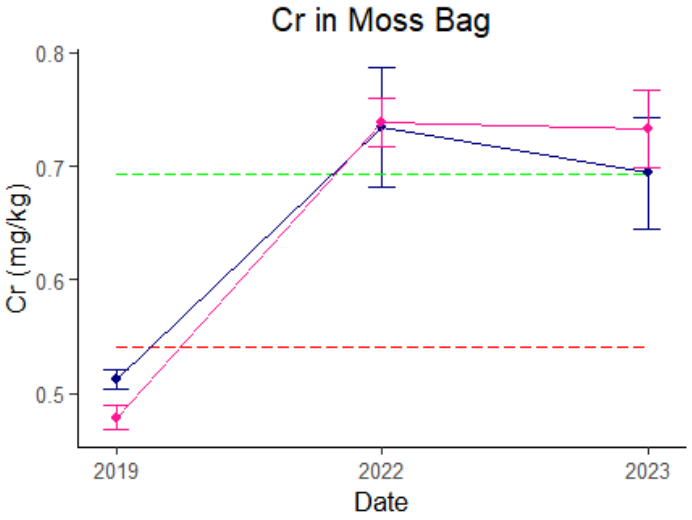
APPENDIX I
Moss Bag Graphs

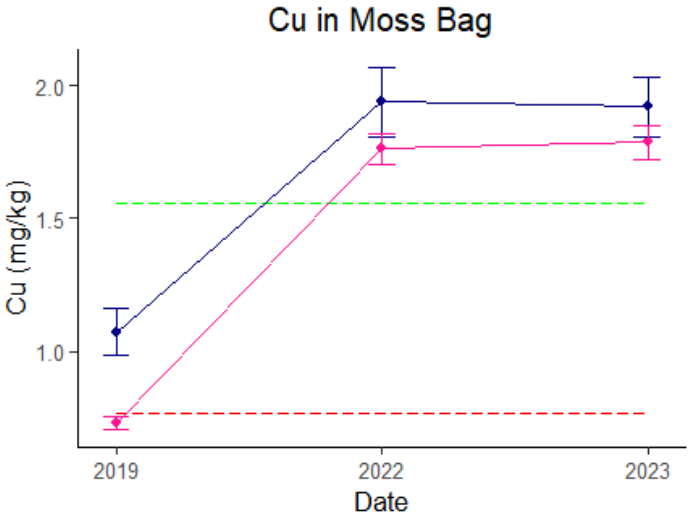


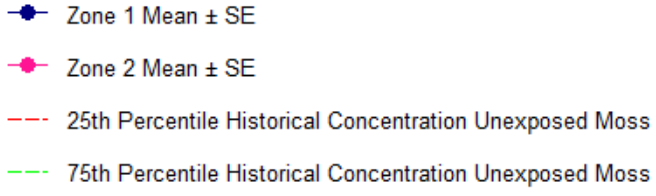












Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

SUEZ – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

Mean Metal Concentration Moss Bags

Date:	Project:	Technical:	Reviewer:	Drawn:
January 16, 2024	15867-503	C. Ayer	L. Oiffer	J. Rich

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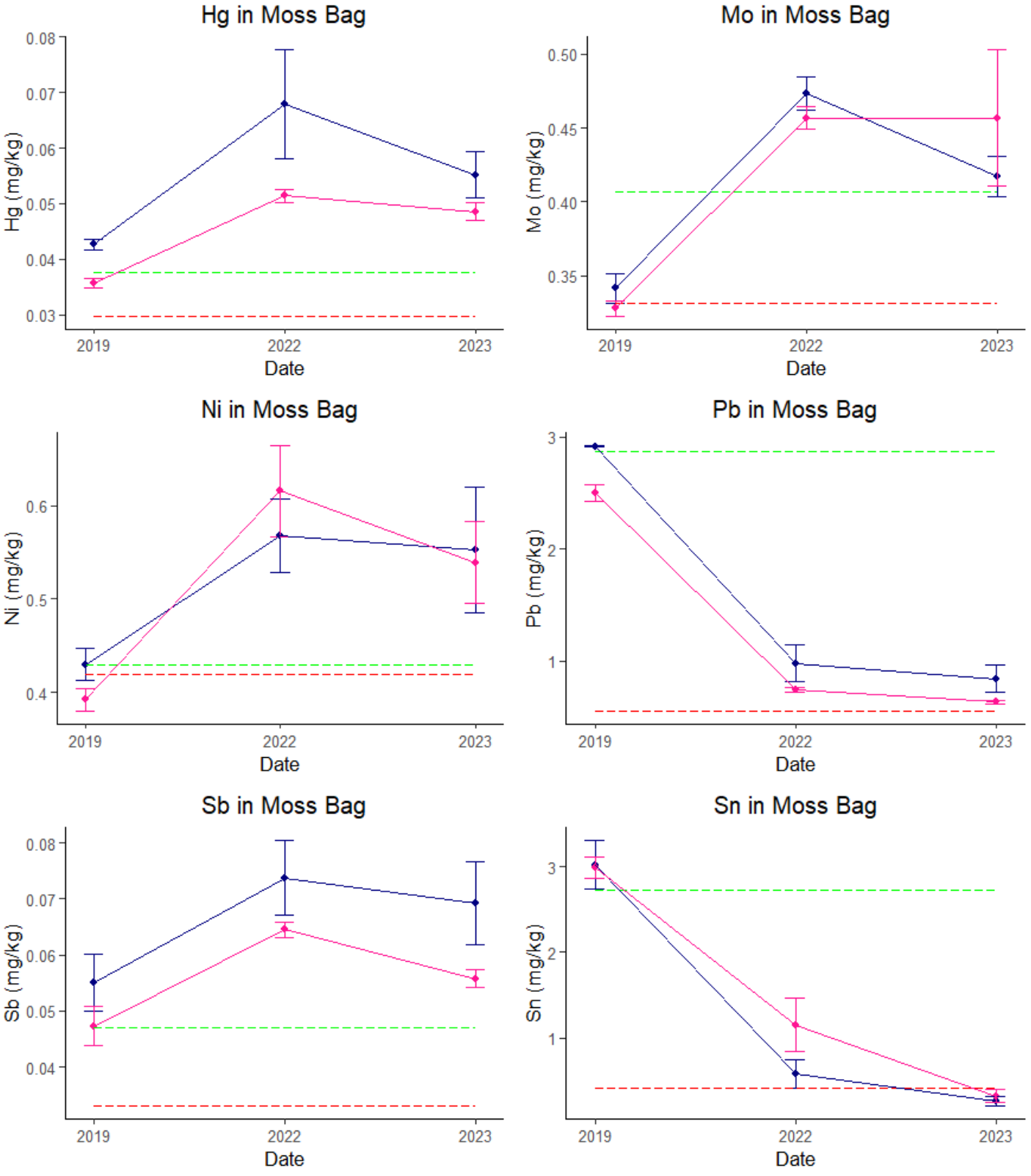
Figure
I.1



Zone 1 Mean ± SE

Zone 2 Mean ± SE

25th Percentile Historical Concentration Unexposed Moss

75th Percentile Historical Concentration Unexposed Moss

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

SUEZ – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

Mean Metal Concentration Moss Bags

Date:	Project:	Technical:	Reviewer:	Drawn:
January 16, 2024	15867-503	C. Ayer	L. Oiffer	J. Rich

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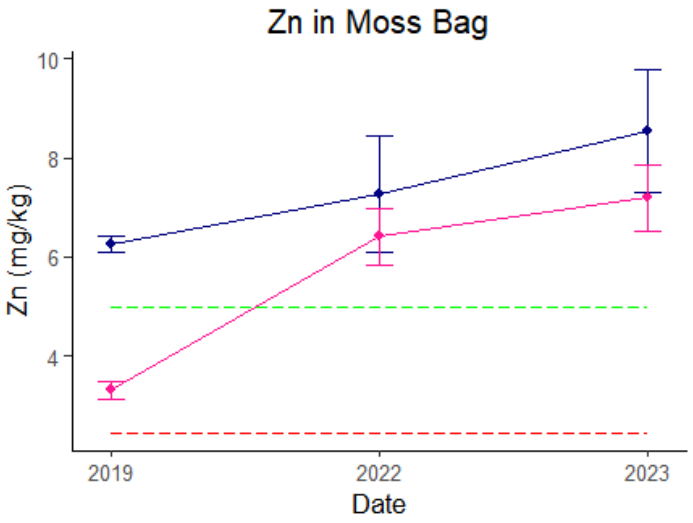
Figure
I.2



Zone 1 Mean ± SE

Zone 2 Mean ± SE

25th Percentile Historical Concentration Unexposed Moss

75th Percentile Historical Concentration Unexposed Moss

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

SUEZ – Swan Hills Treatment Centre
Soil and Vegetation Monitoring Program

Mean Metal Concentration Moss Bags

Date:	Project:	Technical:	Reviewer:	Drawn:
January 16, 2024	15867-503	C. Ayer	L. Oiffer	J. Rich

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Figure I.3

APPENDIX J
Data Quality Evaluation Procedure

APPENDIX J

DATA QUALITY EVALUATION PROCEDURE

1 INTRODUCTION

The analytical data received from laboratories is used to monitor soil, sediment, and water quality. This data is critical for decision-making and recommendations for Matrix Solutions Inc. projects. To verify that data obtained is of appropriate quality, the Environmental Data Services (EDS) group performs a number of quality assurance/quality control (QA/QC) verifications. A description of these measures and subsequent criteria for evaluation are detailed in this document.

2 QUALITY CONTROL MEASURES

The QA/QC verification includes submission of blind samples, field and trip blanks; duplicate samples; historical comparisons, and a review of the laboratory's QA report that is included with the results. Details outlining the purpose and specific evaluation tools associated with the EDS data quality verification process are outlined below.

2.1 Blind Samples

Samples collected by Matrix are assigned a unique sample number and are submitted to the laboratory as a blind sample using this number for identification. This ensures that the sample location cannot be identified by the laboratory and results cannot be biased. The sample number follows Matrix's sample naming protocol of SITE#YYMMDDXXX, where SITE# is a five-digit project code, YYMMDD is the sampling date, and XXX is a three-digit number indicating the sample number for that date. Example: 01234141006001 is the first sample collected for Project 1234 on October 6, 2014. All samples, including QC samples, are given these blind sample numbers.

2.2 Duplicate Samples

Results obtained from duplicate sample analysis are used to monitor the reproducibility (precision) and the expected variability of the sampling method and laboratory analysis. Two samples are collected from the same field location using the same equipment at the same time. The duplicate samples are submitted as blind samples to the laboratory and are typically not given sequential unique sample numbers.

2.3 Field Blanks

Results obtained from the analysis of field blanks are used to measure incidental or accidental sample contamination (i.e., artifacts or analytes detected by analysis but not present in the samples).

2.4 Trip Blanks

Results obtained from the analysis of trip blanks are used to determine whether or not cross-contamination of volatile organic compounds (or other contaminants) has been introduced to the actual samples during sample transportation.

3 EVALUATION CRITERIA FOR QUALITY CONTROL MEASURES

The Matrix EDS group provides the initial review of all analytical data that is received from the laboratory. Results of the QC review are summarized electronically on the *Data Quality Checklist* that is saved along with the report of laboratory results. Evaluation criteria for the QC measures are provided in the following subsections.

3.1 Evaluation of Duplicate Sample Results

The criteria for evaluation of the field duplicate samples take into account the detection limit (DL), the reliable detection limit (RDL; 5 times the DL), the absolute difference between the duplicate values, and/or the relative percent difference (RPD) calculated for each set of duplicate parameter analyses (U.S. EPA 1993, 1992; Zeiner 1994). As well, the criteria take into consideration the matrix of the sample and the concentration of the specific parameter (Zeiner 1994). Three data scenarios require different methods of evaluation.

For each set of duplicate parameter results:

Scenario 1 - if both results are < DL

- The duplicate samples cannot be assessed using absolute difference or RPD; however, the duplicate samples show acceptable precision (both duplicate samples displayed no results above the DL).

Scenario 2 - if one result is non-detected (< DL) and the other result is positive (> DL)

- The duplicates show acceptable precision if the positive result is ≤ 2 × RDL.

Scenario 3 - if both results are > DL

- If both results are < RDL, then the duplicates show acceptable precision.
- If one result is < RDL and the other result is > RDL, then the duplicates show acceptable precision if the absolute difference between results is ≤ 2 × RDL.
- If both results are > RDL, then reproducibility is acceptable if the RPD is:

  a) ≤ 30% for inorganic waters
  b) ≤ 40% for solids and organics

The results of the field duplicate sample analyses are indicated on the *Data Quality Checklist* and the results of the duplicate analyses are summarized on a project-specific QC sample results table.

The RPD is calculated as follows (APHA 1998):

$$RPD = \frac{Absolute\ difference\ \ between\ the\ two\ duplicate\ results}{Mean\ of\ \ the\ two\ duplicate\ results} \times 100$$

3.2 Evaluation of Blank Sample Results

Upon receipt of the results, the EDS group checks the concentrations of the analytes of interest in field and trip blanks to ensure that no parameters are measured at > 2 × DL. Results of the data review are indicated on the *Data Quality Checklist* and summarized on a project-specific QC sample results table.

3.3 Evaluation of Laboratory Quality Control

The approved environmental laboratories used by Matrix have put QC measures in place to ensure that the data released is as accurate and precise as possible. These measures include the use of laboratory blank samples, duplicate samples, spiked samples, and measuring surrogate recoveries.

Upon receipt of the analytical report, the EDS group checks to ensure that the data has passed the laboratory's QC measures for blanks, duplicates, spikes, and surrogate recoveries. If a discrepancy is found, the laboratory is contacted and asked to explain the discrepancy and, if necessary, a recheck of the result is requested, or all of the samples are reanalyzed for the parameter of concern. The EDS group also reviews holding time, extraction time, detection limits, and ion balances. Results of this evaluation are indicated on the *Data Quality Checklist* for each batch of samples analyzed.

3.3.1 Holding Time

Holding time is the maximum amount of time that a sample can be stored before analysis. The date that a sample was analyzed or extracted is noted on the report from the laboratory; the EDS group checks to ensure that samples were analyzed or extracted within the holding time appropriate for that parameter. Data review results are indicated on the *Data Quality Checklist* for each batch of samples analyzed.

3.3.1 Extraction Time

Extraction time is the maximum amount of time that a sample can be stored before extraction, measured from the sample collection date. Extraction time for:

- organics in water is 14 days
- volatile organics in soil is 7 days
- semi-volatile organics in soil is 14 days

3.3.2 Detection Limits

The EDS group checks to ensure that the DLs reported by the laboratory are adequate to meet the applicable assessment guidelines defined for the project. DLs for a parameter should not be greater than the applicable guideline value for that parameter. If any DLs are found to be higher than the applicable guideline, a second analysis may be requested at the discretion of the project manager.

3.4 Historical Comparison of Data

The EDS group compares laboratory results from a sample point to historical parameter levels, wherever possible. Significant changes from historical levels are identified and verification of the data obtained from the laboratory (rechecks) may be requested.

4 REFERENCES

American Public Health Association (APHA). 1998. *Standard Methods for the Examination of Water and Wastewater*. 20th Edition. American Public Health Association. Washington, DC, USA. 1998.

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