

Revised Emission Inventory Supporting Information

Cascade Steel Rolling Mills, Inc. – Air Permit Number: 36-5034

Cleaner Air Oregon Emissions Inventory

May 9, 2022

Revised February 13, 2023

Revised July 3, 2023

Revised August 9, 2023

Introduction

The purpose of this document is to provide information supporting the current air toxics emissions inventory including process flow diagrams and descriptions, TEU identification, source test data, emission factor references, analytical data and supporting engineering calculations.

Process Description & Emission Calculations

Figure A-1 provides a process flow diagram and emission system schematic for Cascade's facility. The diagram includes the identification of emission units used in Cascade's Title V air permit. Emission point identifications for sources of CAO regulated toxic air contaminants are also included. The descriptions below provide the following information in support of the air toxics emissions inventory being submitted:

- A description of the process step or supporting activity that could generate TAC emissions.
- A description of how TAC emissions are generated.
- A general description of the methodologies used to calculate TAC emission rates. More details regarding these calculations are also provided in the emission calculation spreadsheet provided with this submission.

Scrap Preparation and Handling

Scrap ferrous metal is transported to the scrap storage yards by rail and by truck. There are two scrap storage yards. The Main Yard is where the scrap is transported to the electric arc furnace (EAF) using scrap buckets, which are filled by electromagnets and grapples that pick up the scrap. The Secondary Yard is essentially a surge pile where scrap can be temporarily stockpiled prior to transfer to the Main Yard. Scrap handling can generate fugitive dust emissions that may contain TACs.

Infrequently larger pieces of scrap are cut to size to accommodate further handling. Cuts are made using hand held natural gas fueled torches. This activity is referred to as scrap preparation and it occurs within the charge bay of the melt shop with emissions controlled by the baghouse BH-1/1A system. Emissions of TACs during scrap preparation include byproducts

of natural gas combustion which are gas combustion TEU's under OAR 340-245-0050(4)(b) and qualify for the gas combustion exemption under OAR 340-245-0050(5). When the torch creates a kerf cutting through the metal scrap small amounts of fugitive metal TACs are emitted.

As shown in the Figure A-1 Process Flow Diagram there are four TEUs associated with scrap preparation and scrap handling.

- EU-9sp – Scrap preparation with metal TACs from torch creating kerf in scrap controlled by baghouses BH-1/BH-1A.
- EU-9ng – Scrap preparation torch gas combustion TEU primarily emitted through BH-1/BH-1A.
- EU-09sh_Main – Scrap handling at the Main Yard generating fugitive dust that may contain TACs emitted at fugitive emission point SH_Main.
- EU-09sh_Sec – Scrap handling at the Secondary Yard generating fugitive dust that may contain TACs emitted at fugitive emission point SH_Sec.

On January 30, 2023 Cascade submitted to DEQ a Dust Sampling Plan to collect and analyze scrap dust samples to support the speciation of TAC emissions in scrap dust. DEQ approved the plan on February 8, 2023. Scrap dust analytical data are included with this submission and the results are incorporated into the emissions inventory.

Melt Shop

The melt shop consists of three major processes: the electric arc furnace (EAF), the ladle furnace, and the continuous caster. These processes and their potential TAC emissions are discussed below.

Electric Arc Furnace

The scrap from the scrap storage yard is transferred into the EAF. The charge bucket deposits the scrap into the EAF to produce molten steel which is poured into a ladle from a bottom tap in the EAF. Dolomitic lime, calcium carbide, and carbon, in the form of coal or coke, can also be added to arrive at the specified metallurgical properties in the melt. The EAF has three auxiliary burners that are fueled by natural gas.

Melted nonferrous scrap constituents, which are lighter than the molten metal, float to the top of the EAF vessel and are decanted off into a slag pit. Slag containing sufficient residual ferrous material is reclaimed by magnet and returned to the EAF.

Ladle Furnace

After initial melting and gross refining of the metal in the EAF, the chemistry of the molten metal is fine-tuned in the ladle furnace (LF) through the addition of alloys and other additives. The ladle furnace also utilizes an electric arc to melt and refine steel.

After the final chemistry and temperature adjustments are made, the ladle is moved to the casting area. Natural gas fired vertical preheaters (EU-4) are utilized to pre-heat ladles prior to filling with molten steel.

Continuous Caster

From the ladle furnace, the molten metal is transferred to the continuous caster area in the ladle. In the caster area there are four natural gas fired heaters that are used to pre-heat a cold tundish prior to the first introduction of molten steel.

The molten metal is poured from the ladle into the tundish (a reservoir above the continuous caster molds). Molten metal funnels from the tundish into a continuous caster with a series of five molds. The solidified metal billets exiting the bottom of the mold are cut into appropriate lengths for rolling. After cooling and scale removal, the billets are transferred to the Rolling Mill for further processing. The process can generate off-spec billets that need to be cut down in size (using torches) so they can be reprocessed at the EAF. This scrap billet cutting occurs within the EAF charge bay with emissions primarily being controlled by baghouses BH-1/BH-1A.

The primary TEUs and emission points associated with the Melt Shop processes are as follows:

- EU-1 – Organic and inorganic TACs generated from Melt Shop process activities exhausted to baghouses BH-1, BH-1A and BH-2 emitted through emission points BH01, BH01A and BH02.
- EU-3_RM - Organic and inorganic TACs generated from Melt Shop process activities not captured by the baghouses and emitted through the west end Melt Shop roof monitor (emission point RMELT). This emissions unit is identified on page 28 of DEQ's Review Report as "EU-3 Roof monitor".
- EU-3_MF - Organic and inorganic TACs generated from Melt Shop process activities not captured by the baghouses and not emitted through the west end Melt Shop roof monitor but emitted through Melt Shop "other openings" (emission point MELTFUG). This emissions unit is identified on page 28 of DEQ's Review Report as "EU-3 Other openings". DEQ's Review Report indicates that emissions from the emissions unit are estimated based on 5% of the emissions exiting the roof monitor and this estimation methodology is used in this EI as appropriate.

- EU-4 Vertical Preheater natural gas combustion byproduct TEU emitted through stack emission point VERTP.
- EU-10 – Metal TACs released from billet kerf and exhausted through a vent (emission point BC01).
- EU-10ng – Torch natural gas combustion byproducts exhausted through a vent (emission point BC01).
- EU-12 – Metal TACs released from scrap billet kerf and exhausted to baghouses BH-1/BH-1A (emission points BH01 and BH-1A) and other Melt Shop openings (emission point MELTFUG).
- EU-12ng – Torch natural gas combustion byproducts exhausted to baghouses BH-1/BH-1A (emission points BH01 and BH-1A) and other Melt Shop openings (emission point MELTFUG).
- EU-16ng – From multiple Melt Shop heaters, natural gas combustion byproducts exhausted to baghouses BH-1/BH-1A (emission points BH01 and BH-1A), the roof monitor (emission point RMELT) and other Melt Shop openings (emission point MELTFUG).

Slag Handling

Slag generated at the melt shop pit is dumped along a wall just northeast of the melt shop and wetted with city water. An oxidizing agent for hydrogen sulfide control is added to the water. Slag handling can generate dust containing TACs and sulfur present in the slag can generate hydrogen sulfide emissions upon wetting of the slag.

Additional details of the slag wetting process are as follows:

- It is a batch process.
- The approximate temperature of the slag is 1800F.
- The oxidizing agent is added via inline injection to a recirculating loop. A spray bar equipped with ~10 nozzles is used to wet the slag.
- The spray bars apply about 120 gpm of water to the slag over a period of about 10 hours. At this flow rate and duration and assuming 370 tons of slag produced in a batch the amount of water applied would be about 195 gallons per ton of slag

The TEU associated the melt shop slag handling is as follows:

- EU-5 – Fugitive particulate TACs and hydrogen sulfide generated from slag material transfers emitted at fugitive emission point SHF01.

Rod and Bar Mill

In the rod and bar mill billets are reformed into bars, smooth rods, rebar coils, wire rod and bar-length products. The rod and bar mill includes a large natural gas fired reheat furnace with a dedicated stack. Minor components of the rod and bar mill include the Aggregate Insignificant Activities (AIA) listed in the facility air permit: Merchant Bar Band Saw and Merchant Bar Straightener. These two activities are no longer operated.

The primary TEU associated the rod and bar mill is as follows:

- EU-7 – Reheat furnace natural gas combustion byproducts exhausted to a dedicated stack [RFS2].

Gasoline Dispensing Facility (GDF)

The facility includes a gasoline storage tank that dispenses fuel to vehicles. Organic TACs are emitted due to tank standing and working losses and during fuel transfer to vehicles.

The TEU associated the GDF is as follows:

- EU-15 – Organic vapor TAC emissions at gasoline dispensing facility emitted at emission point GDF.

Unpaved Roads

Vehicle traffic on unpaved roads can generate dust emissions. The dust may contain TACs. CSRMM conducted a review of vehicle travel on unpaved roads at the facility and details are provided in the supporting calculations. The unpaved road at the facility will be constructed out of gravel and is located at a scrap handling area and the scrap handling emissions TAC speciation data will be used to estimate emissions.

The TEU associated the unpaved road is as follows:

- EU-11 – TAC emissions in dust generated from vehicle travel on an unpaved road segment (emission points SCRAP1).

Welding

Electric arc welding occurs at three maintenance shops at the facility with a majority of the welding occurring at the Maintenance and Fabrication Shop.

The TEU associated with welding is as follows:

- EU-17 – Metal TAC emissions from electric arc welding fumes controlled by a fume extractor/filter system that exhausts into the shop (emission point MaintFab).

Material Handling

Silicon manganese and ferro manganese alloys are brought to the site via trucks which dump the aggregate-like material into a three-side and roofed storage bin. The alloys are then transferred to a feeder-hooper to convey the materials into the Melt Shop.

Dolomitic Lime and Quick Lime are stored in super sacks and periodically the entire super sack will be placed into a charge bucket containing scrap. The super sack can break during this transfer process and produce emissions of the lime materials.

The TEU associated with material handling is as follows:

- EU-18 – TAC emissions from handling materials including truck dumps of alloys [ALLOYTD], alloy unloading to feeder [ALLOYULD] and lime materials transferred to charge buckets [LIMEBCKT].

Aggregate Insignificant Activities

The following is a description of the TEU status of other Aggregate Insignificant Activities listed in the facility's permit:

- Thermal Treatment Oven: Small natural gas combustion source with TEU designation (EU-14) emitted through stack with emission point designation [TTO]
- Mill Scale Handling: Not a source of TACs, composition is iron oxide.
- Merchant Bar Band Saw (no longer operated)
- Merchant Bar Straightener (no longer operated)
- Baghouse Dust Handling: The Review Report detail sheets indicate a PM loss rate of 0.001% based on a "DEQ Estimate". We believe this loss rate estimate is out of date because the dust handling system has been enclosed with air displacements routed back to the baghouse BH-1/BH-1A system.

Categorically Insignificant Activities no Longer Categorically Exempt under CAO

See Attachment I for an assessment of CETEU's.

List of Attachments

Attachment A – Figure A-1: Process Flow Diagram
Attachment B – Emission Calculations (This attachment provided as password protected electronic spreadsheet file)
Attachment C – August 6-8, 2019 Source Test Report (See 5/9/22 submittal. No changes with this revision.)
Attachment D – 2013 Filter Analysis Report (See 5/9/22 submittal. No changes with this revision.)
Attachment E – May 21-23, 2013 Source Test Report (See 5/9/22 submittal. No changes with this revision.)
Attachment F – Slag Composition Analytical Report (See 5/9/22 submittal. No changes with this revision.)
Attachment G – APEX Laboratories Analytical Report – Scrap Handling Dust (See 2/13/23 submittal. No changes with this revision.)
Attachment H – January 20, 2023 letter from Cascade to DEQ regarding Fluoride emissions (See 2/13/23 submittal. No changes with this revision.)
Attachment I – Discussion of TEU status of previously exempt Categorically Insignificant Activities (See 2/13/23 submittal. No changes with this revision.)
Attachment J – Raw material usage information and safety data sheets (See 2/13/23 submittal. No changes with this revision.)
Attachment K – Wastewater PFD and Description (See 2/13/23 submittal. No changes with this revision.)
Attachment L – March 10, 2023 letter from Cascade to DEQ regarding Fluorides & appended with Nucor Berkley air permit
Attachment M – Welding Materials SDSs
Attachment N – Slag Oxidizer SDSs
Attachment O – Cooling Tower SDSs
Attachment P – Slag Analytical Report for Fluoride
Attachment Q – Baghouse Dust Analytical Report for D/Fs, PCBs, and PAHs

Attachment A

Figure A-1: Process Flow Diagram

(See 7/3/23 submittal. No changes with this revision.)

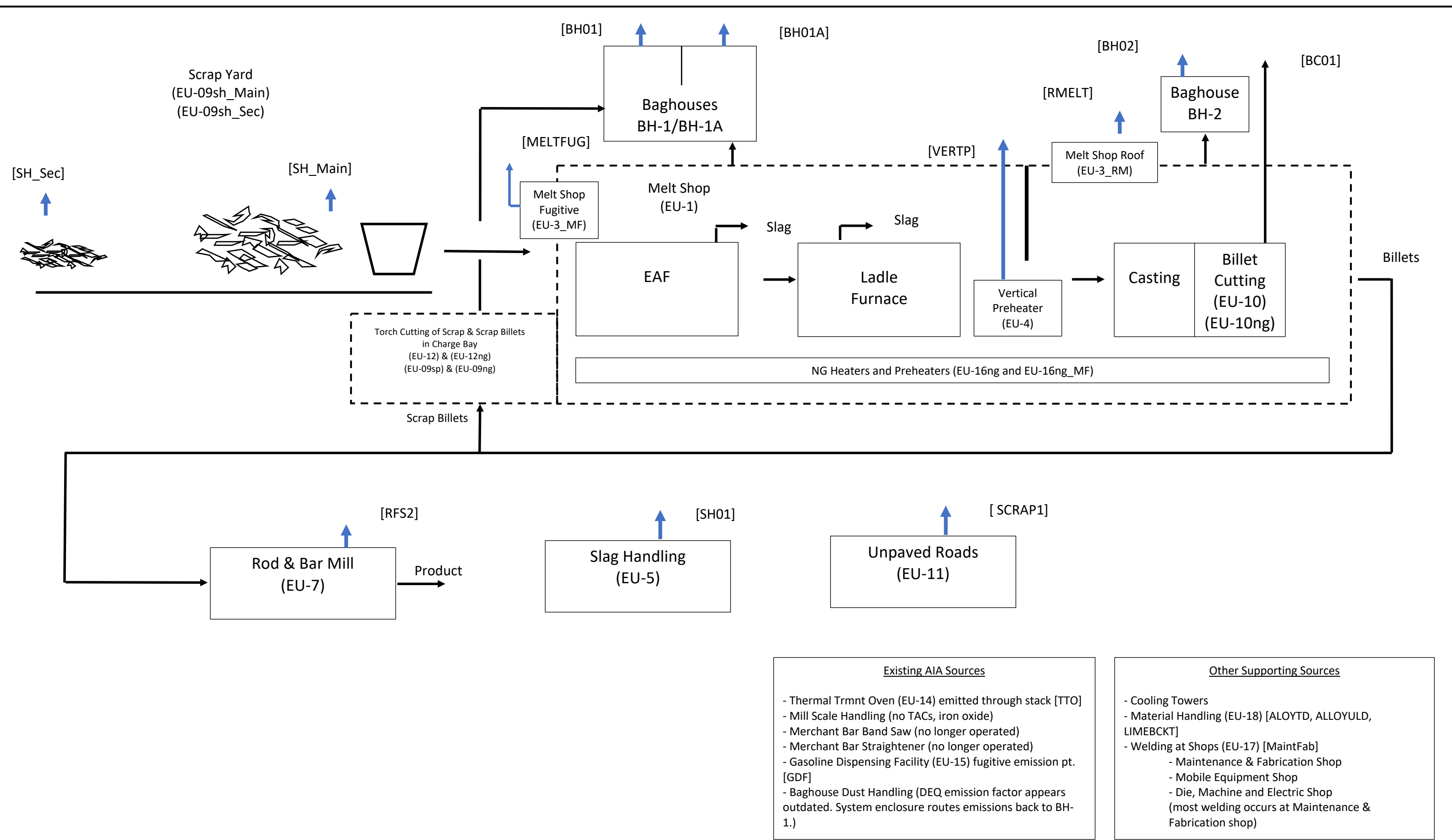


Figure A-1
 Process Flow Diagram
 (Revised 2/13/23)
 (Revised 7/3/23)

Attachment B Emission Calculations

(This attachment provided as password protected electronic spreadsheet file

Revised 2/13/23)

(Revised 7/3/23)

(Revised 8/9/23)

Attachment C
August 6-8, 2019 Source Test
(See 5/9/22 submittal. No changes with this revision.)

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2013 Filter Analysis Report
(See 5/9/22 submittal. No changes with this revision.)

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(See 2/13/23 submittal. No changes with this revision)

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Emissions

(See 2/13/23 submittal. No changes with this revision.)

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Insignificant Activities
(See 2/13/23 submittal. No changes with this revision.)

Attachment J

Raw Material Usage Information and Safety Data Sheets
(See 2/13/23 submittal. No changes with this revision)

Attachment K
Wastewater PFD and Description
(See 2/13/23 submittal. No changes with this revision.)

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Fluorides

(See 7/3/23 submittal. No changes with this revision.)

Attachment M
Welding Materials SDS

(See 7/3/23 submittal. No changes with this revision.)

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Slag Oxidizer SDS

(See 7/3/23 submittal. No changes with this revision.)

Attachment O
Cooling Tower SDS

(See 7/3/23 submittal. No changes with this revision.)

Attachment P
Slag Analytical Report for Fluorides
(See 7/3/23 submittal. No changes with this revision.)

Attachment Q
Baghouse Dust Analytical Report for D/Fs, PCBs, and PAHs



ALS Environmental
ALS Group USA, Corp
1317 South 13th Avenue
Kelso, WA 98626
T : +1 360 577 7222
F : +1 360 636 1068
www.alsglobal.com

June 27, 2023

Analytical Report for Service Request No: K2305592

Justin Pounds
Bridgewater Group
7100 SW Hampton St.; Suite 235
Tigard, OR 97223

RE: CSRM Dust Sampling / CSRM-007

Dear Justin,

Enclosed are the results of the sample(s) submitted to our laboratory May 16, 2023
For your reference, these analyses have been assigned our service request number **K2305592**.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3376. You may also contact me via email at Mark.Harris@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Mark Harris
Project Manager



ALS Environmental
ALS Group USA, Corp
1317 South 13th Avenue
Kelso, WA 98626
T : +1 360 577 7222
F : +1 360 636 1068
www.alsglobal.com

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Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.
- H The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

- # The control limit criteria is not applicable.
- J The result is an estimated value.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
 - i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimated value.
- J The result is an estimated value.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

**ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses**

Agency	Web Site	Number
Alaska DEH	http://dec.alaska.gov/eh/lab/cs/csapproval.htm	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L16-58-R4
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	http://health.hawaii.gov/	-
ISO 17025	http://www.pjllabs.com/	L16-57
Louisiana DEQ	http://www.deq.louisiana.gov/page/la-lab-accreditation	03016
Maine DHS	http://www.maine.gov/dhhs/	WA01276
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/enforcement/oqa.html	WA005
New York - DOH	https://www.wadsworth.org/regulatory/elap	12060
North Carolina DEQ	https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/EnvironmentalLabCertification/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wyoming (EPA Region 8)	https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/analyte is offered by that state.



Case Narrative

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Client: Bridgewater Group
Project: CSRM Dust Sampling
Sample Matrix: Soil

Service Request: K2305592
Date Received: 05/16/2023

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

Four soil samples were received for analysis at ALS Environmental on 05/16/2023. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Semivolatiles by GC/MS:

The following analytes were flagged as outside the control criterion for Continuing Calibration Verification (CCV) KQ2309404-02: Benzo(a)pyrene and Indeno(1,2,3-cd)pyrene. In accordance with the EPA Method, 80% or more of the CCV analytes must have passed within 20% of the true value. The remaining analytes are allowed a 40% difference as per the ALS SOP. The CCV met these criteria. No further corrective action was required.

Method 8270D, 05/23/2023: Samples Baghouse 2 and Baghouse Dust 2 required dilution due to the presence of elevated levels of several target analytes. The reporting limits are adjusted to reflect the dilution.

Method 8270D, 05/23/2023: Samples Baghouse Dust 1 and Baghouse Dust 2 were received past holding time. The analysis was performed as soon as possible after receipt by the laboratory. The data was flagged to indicate the holding time violation.

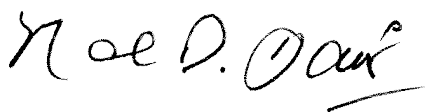
Subcontracted Analytical Parameters:

Dioxins and Furans by EPA Method 1613B

The analysis for Dioxins and Furans was performed at ALS Burlington, Ontario Laboratory. The data for this analysis is included in the corresponding section of this report.

PCB Congeners by EPA Method 1668C

The analysis for PCB Congeners was performed at ALS Burlington, Ontario Laboratory. The data for this analysis is included in the corresponding section of this report.

Approved by 

Date 06/27/2023



Chain of Custody

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Chain of Custody



ADDRESS 1317 South 13th Ave., Kelso, WA 98626
 PHONE 1 360 577 7222 FAX 1 360 636 1068

Work Order No.: *K2305502*

Part of the ALS Group A Campbell Brothers Limited Company

Project Manager:	Geoffrey Tichenor			Bill to:	PO NUMBER: CSRM-007		
Client Name:	Stoel Rives LLP			Company:	Bridgewater Group		
Address:	760 SW Ninth Ave, Suite 3000			Address:	7100 SW Hampton, Suite 235		
City, State ZIP:	Portland, Oregon 97205			City, State ZIP:	Tigard Oregon		
Email:	geoffry.tichenor@stoel.com		Phone:	503-294-9389		Email:	ddean@bridgeh2o.com brownng@bridgeh2o.com

Project Name: CSRM Dust Sampling				REQUESTED ANALYSIS												TAT					
Project Number: CSRM-007				No. of Containers Total Solids Method 160.3 Modified Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by Method 1613B Chlorinated Biphenyl Congeners by Method 1668C Project Specific PAHs by Method 8270D Sim (see attached)													<input type="checkbox"/> Routine <input type="checkbox"/> Same Day *** <input type="checkbox"/> Next Day *** <input type="checkbox"/> 3 Day <input type="checkbox"/> 5 Day				
P.O. Number: CSRM-007																	*** Please call for availability Comments				
Sampler's Name: Jason Young - CSRM																					
SAMPLE RECEIPT																					
Temperature (°C):		Temp Blank Present																			
Received Intact:		Yes	No		N/A	Wet Ice / Blue Ice															
Cooler Custody Seals:		Yes	No		N/A	Total Containers:															
Sample Custody Seals:		Yes	No		N/A																
Sample Identification	Matrix	Date Sampled	Time Sampled		Lab ID																
Baghouse 1	s	5/10/23	9:00 AM			x	x	x	x												

Comments: Subject to Attorney/Client Privilege & Attorney Work Product. Test and analytical results send to Stoel Rives under attorney client privilege.

Dissolved	Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Se, Si, Sn, Sr, Tl, V, Zn, Zr	Additional Methods Available Upon Request
Total	Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Se, Si, Sn, Sr, Tl, V, Zn, Zr	

RELINQUISHED BY			RECEIVED BY		
Print Name	Signature	Date/Time	Print Name	Signature	Date/Time
Justin Powell		5/10/23 9:00 AM	KARLYN MITOLO		5/10/23 10:20

Chain of Custody



ADDRESS 1317 South 13th Ave., Kelso, WA 98626
PHONE 1 360 577 7222 FAX 1 360 636 1068

Part of the ALS Group A Campbell Brothers Limited Company

Work Order No.:

K2305502

Project Manager: Geoffrey Tichenor		Bill to: PO NUMBER: CSRM-007																																																																															
Client Name: Stoel Rives LLP		Company: Bridgewater Group																																																																															
Address: 760 SW Ninth Ave, Suite 3000		Address: 7100 SW Hampton, Suite 235																																																																															
City, State ZIP: Portland, Oregon 97205		City, State ZIP: Tigard Oregon																																																																															
Email: geoffry.tichenor@stoel.com		Phone: 503-294-9389		Email: ddean@bridgeh2o.com																																																																													
Project Name: CSRM Dust Sampling		REQUESTED ANALYSIS				TAT																																																																											
Project Number: CSRM-007		<div style="display: flex; justify-content: space-around; font-size: small;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">No. of Containers</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Total Solids Method 160.3 Modified</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by Method 1613B</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chlorinated Biphenyl Congeners by Method 1668C</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Project Specific PAHs by Method 8270D Sim (see attached)</div> </div>				<input type="checkbox"/> Routine <input type="checkbox"/> Same Day *** <input type="checkbox"/> Next Day *** <input type="checkbox"/> 3 Day <input type="checkbox"/> 5 Day																																																																											
P.O. Number: CSRM-007																																																																																	
Sampler's Name: Jason Young - CSRM																																																																																	
SAMPLE RECEIPT																																																																																	
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PM MH

Cooler Receipt and Preservation Form

Client Bridgewater Group Service Request K23 05502
 Received: 5/16/23 Opened: 5/16/23 By: VSM Unloaded: 5/16/23 By: VSM

1. Samples were received via? USPS Fed Ex UPS DHL PDX Courier Hand Delivered
 2. Samples were received in: (circle) Cooler Box Envelope Other NA
 3. Were custody seals on coolers? NA Y N If yes, how many and where? 1 Front
 If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Temp Blank	Sample Temp	IR Gun	Cooler #/COC ID / NA	Out of temp indicate with "X"	PM Notified If out of temp	Tracking Number NA	Filed
	<u>15.7</u>	<u>IR02</u>		<u>X</u>	<u>X</u>	<u>398330955249</u>	

4. Was a Temperature Blank present in cooler? NA Y N If yes, notate the temperature in the appropriate column above:
 If no, take the temperature of a representative sample bottle contained within the cooler; notate in the column "Sample Temp":
 5. Were samples received within the method specified temperature ranges? NA Y N
 If no, were they received on ice and same day as collected? If not, notate the cooler # above and notify the PM. NA Y N
 If applicable, tissue samples were received: Frozen Partially Thawed Thawed
 6. Packing material: Inserts Baggies Bubble Wrap Gel Packs Wet Ice Dry Ice Sleeves
 7. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
 8. Were samples received in good condition (unbroken) NA Y N
 9. Were all sample labels complete (ie, analysis, preservation, etc.)? NA Y N
 10. Did all sample labels and tags agree with custody papers? NA Y N
 11. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
 12. Were the pH-preserved bottles (see SMO GEN SOP) received at the appropriate pH? Indicate in the table below NA Y N
 13. Were VOA vials received without headspace? Indicate in the table below NA Y N
 14. Was C12/Res negative? NA Y N
 15. Were samples received within the method specified time limit? If not, notate the error below and notify the PM NA Y N
 16. Were 100ml sterile microbiology bottles filled exactly to the 100ml mark? NA Y N Underfilled Overfilled

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count	Bottle Type	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, Resolutions: Temp not an issue due to matrix of sample



Total Solids

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Bridgewater Group
Project: CSRM Dust Sampling/CSRM-007
Sample Matrix: Soil
Analysis Method: 160.3 Modified
Prep Method: None

Service Request: K2305592
Date Collected: 04/13/23 - 05/10/23
Date Received: 05/16/23
Units: Percent
Basis: As Received

Solids, Total

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
Baghouse 1	K2305592-001	100	-	1	05/17/23 12:18	
Baghouse 2	K2305592-002	99.0	-	1	05/17/23 12:18	
Baghouse Dust 1	K2305592-003	100	-	1	05/17/23 12:18	
Baghouse Dust 2	K2305592-004	98.6	-	1	05/17/23 12:18	



Polycyclic Aromatic Hydrocarbons by GC/MS SIM

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Bridgewater Group
Project: CSRM Dust Sampling/CSRM-007
Sample Matrix: Soil

Service Request: K2305592
Date Collected: 05/10/23 09:00
Date Received: 05/16/23 10:20

Sample Name: Baghouse 1
Lab Code: K2305592-001

Units: ug/Kg
Basis: Dry

Polycyclic Aromatic Hydrocarbons by GC/MS SIM

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Acenaphthene	ND U	4.9	1	05/23/23 21:08	5/22/23	
Acenaphthylene	14	4.9	1	05/23/23 21:08	5/22/23	
Anthracene	ND U	4.9	1	05/23/23 21:08	5/22/23	
Benz(a)anthracene	8.5	4.9	1	05/23/23 21:08	5/22/23	
Benzo(a)pyrene	ND U	4.9	1	05/23/23 21:08	5/22/23	
Benzo(b)fluoranthene	27	4.9	1	05/23/23 21:08	5/22/23	
Benzo(e)pyrene	16	4.9	1	05/23/23 21:08	5/22/23	
Benzo(g,h,i)perylene	7.8	4.9	1	05/23/23 21:08	5/22/23	
Benzo(k)fluoranthene	6.5	4.9	1	05/23/23 21:08	5/22/23	
Chrysene	38	4.9	1	05/23/23 21:08	5/22/23	
Dibenz(a,h)anthracene	ND U	4.9	1	05/23/23 21:08	5/22/23	
Fluoranthene	130	4.9	1	05/23/23 21:08	5/22/23	
Fluorene	13	4.9	1	05/23/23 21:08	5/22/23	
Indeno(1,2,3-cd)pyrene	5.5	4.9	1	05/23/23 21:08	5/22/23	
Naphthalene	21	4.9	1	05/23/23 21:08	5/22/23	
Perylene	ND U	4.9	1	05/23/23 21:08	5/22/23	
Phenanthrene	130	4.9	1	05/23/23 21:08	5/22/23	
Pyrene	72	4.9	1	05/23/23 21:08	5/22/23	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Fluoranthene-d10	43	28 - 112	05/23/23 21:08	
Fluorene-d10	41	34 - 106	05/23/23 21:08	
Terphenyl-d14	45	32 - 122	05/23/23 21:08	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Bridgewater Group
Project: CSRM Dust Sampling/CSRM-007
Sample Matrix: Soil

Service Request: K2305592
Date Collected: 05/10/23 09:10
Date Received: 05/16/23 10:20

Sample Name: Baghouse 2
Lab Code: K2305592-002

Units: ug/Kg
Basis: Dry

Polycyclic Aromatic Hydrocarbons by GC/MS SIM

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Acenaphthene	20	4.9	1	05/23/23 21:44	5/22/23	
Acenaphthylene	97	4.9	1	05/23/23 21:44	5/22/23	
Anthracene	190	4.9	1	05/23/23 21:44	5/22/23	
Benz(a)anthracene	1600	4.9	1	05/23/23 21:44	5/22/23	
Benzo(a)pyrene	1100	4.9	1	05/23/23 21:44	5/22/23	
Benzo(b)fluoranthene	4400	49	10	05/24/23 18:16	5/22/23	
Benzo(e)pyrene	2700	49	10	05/24/23 18:16	5/22/23	
Benzo(g,h,i)perylene	2500	49	10	05/24/23 18:16	5/22/23	
Benzo(k)fluoranthene	1000	4.9	1	05/23/23 21:44	5/22/23	
Chrysene	3500	49	10	05/24/23 18:16	5/22/23	
Dibenz(a,h)anthracene	300	4.9	1	05/23/23 21:44	5/22/23	
Fluoranthene	5500	49	10	05/24/23 18:16	5/22/23	
Fluorene	74	4.9	1	05/23/23 21:44	5/22/23	
Indeno(1,2,3-cd)pyrene	2700	49	10	05/24/23 18:16	5/22/23	*
Naphthalene	140	4.9	1	05/23/23 21:44	5/22/23	
Perylene	300	4.9	1	05/23/23 21:44	5/22/23	
Phenanthrene	1500	4.9	1	05/23/23 21:44	5/22/23	
Pyrene	4600	49	10	05/24/23 18:16	5/22/23	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Fluoranthene-d10	60	28 - 112	05/23/23 21:44	
Fluorene-d10	56	34 - 106	05/23/23 21:44	
Terphenyl-d14	63	32 - 122	05/23/23 21:44	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Bridgewater Group
Project: CSRM Dust Sampling/CSRM-007
Sample Matrix: Soil

Service Request: K2305592
Date Collected: 04/13/23 12:00
Date Received: 05/16/23 10:20

Sample Name: Baghouse Dust 1
Lab Code: K2305592-003

Units: ug/Kg
Basis: Dry

Polycyclic Aromatic Hydrocarbons by GC/MS SIM

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Acenaphthene	ND U	4.9	1	05/23/23 22:21	5/22/23	*
Acenaphthylene	9.1	4.9	1	05/23/23 22:21	5/22/23	*
Anthracene	ND U	4.9	1	05/23/23 22:21	5/22/23	*
Benz(a)anthracene	9.1	4.9	1	05/23/23 22:21	5/22/23	*
Benzo(a)pyrene	5.3	4.9	1	05/23/23 22:21	5/22/23	*
Benzo(b)fluoranthene	39	4.9	1	05/23/23 22:21	5/22/23	*
Benzo(e)pyrene	21	4.9	1	05/23/23 22:21	5/22/23	*
Benzo(g,h,i)perylene	12	4.9	1	05/23/23 22:21	5/22/23	*
Benzo(k)fluoranthene	8.4	4.9	1	05/23/23 22:21	5/22/23	*
Chrysene	43	4.9	1	05/23/23 22:21	5/22/23	*
Dibenz(a,h)anthracene	ND U	4.9	1	05/23/23 22:21	5/22/23	*
Fluoranthene	120	4.9	1	05/23/23 22:21	5/22/23	*
Fluorene	8.5	4.9	1	05/23/23 22:21	5/22/23	*
Indeno(1,2,3-cd)pyrene	11	4.9	1	05/23/23 22:21	5/22/23	*
Naphthalene	18	4.9	1	05/23/23 22:21	5/22/23	*
Perylene	ND U	4.9	1	05/23/23 22:21	5/22/23	*
Phenanthrene	92	4.9	1	05/23/23 22:21	5/22/23	*
Pyrene	51	4.9	1	05/23/23 22:21	5/22/23	*

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Fluoranthene-d10	36	28 - 112	05/23/23 22:21	
Fluorene-d10	34	34 - 106	05/23/23 22:21	
Terphenyl-d14	35	32 - 122	05/23/23 22:21	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Bridgewater Group
Project: CSRM Dust Sampling/CSRM-007
Sample Matrix: Soil

Service Request: K2305592
Date Collected: 04/13/23 12:45
Date Received: 05/16/23 10:20

Sample Name: Baghouse Dust 2
Lab Code: K2305592-004

Units: ug/Kg
Basis: Dry

Polycyclic Aromatic Hydrocarbons by GC/MS SIM

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Acenaphthene	23	4.9	1	05/23/23 22:57	5/22/23	*
Acenaphthylene	93	4.9	1	05/23/23 22:57	5/22/23	*
Anthracene	210	4.9	1	05/23/23 22:57	5/22/23	*
Benz(a)anthracene	1800	4.9	1	05/23/23 22:57	5/22/23	*
Benzo(a)pyrene	1200	4.9	1	05/23/23 22:57	5/22/23	*
Benzo(b)fluoranthene	4800	49	10	05/24/23 18:41	5/22/23	*
Benzo(e)pyrene	2900	49	10	05/24/23 18:41	5/22/23	*
Benzo(g,h,i)perylene	2700	49	10	05/24/23 18:41	5/22/23	*
Benzo(k)fluoranthene	1200	4.9	1	05/23/23 22:57	5/22/23	*
Chrysene	3800	49	10	05/24/23 18:41	5/22/23	*
Dibenz(a,h)anthracene	350	4.9	1	05/23/23 22:57	5/22/23	*
Fluoranthene	6100	49	10	05/24/23 18:41	5/22/23	*
Fluorene	83	4.9	1	05/23/23 22:57	5/22/23	*
Indeno(1,2,3-cd)pyrene	2900	49	10	05/24/23 18:41	5/22/23	*
Naphthalene	160	4.9	1	05/23/23 22:57	5/22/23	*
Perylene	340	4.9	1	05/23/23 22:57	5/22/23	*
Phenanthrene	1600	4.9	1	05/23/23 22:57	5/22/23	*
Pyrene	4800	49	10	05/24/23 18:41	5/22/23	*

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Fluoranthene-d10	64	28 - 112	05/23/23 22:57	
Fluorene-d10	61	34 - 106	05/23/23 22:57	
Terphenyl-d14	69	32 - 122	05/23/23 22:57	

Client: Bridgewater Group
Project: CSRM Dust Sampling/CSRM-007
Sample Matrix: Soil

Service Request: K2305592

SURROGATE RECOVERY SUMMARY
Polycyclic Aromatic Hydrocarbons by GC/MS SIM

Analysis Method: 8270D
Extraction Method: EPA 3546

Sample Name	Lab Code	Fluoranthene-d10	Fluorene-d10	Terphenyl-d14
		28 - 112	34 - 106	32 - 122
Baghouse 1	K2305592-001	43	41	45
Baghouse 2	K2305592-002	60	56	63
Baghouse Dust 1	K2305592-003	36	34	35
Baghouse Dust 2	K2305592-004	64	61	69
Baghouse 1 MS	KQ2308853-01	45	41	44
Baghouse 1 DMS	KQ2308853-02	39	37	39
Lab Control Sample	KQ2308853-03	78	74	78
Method Blank	KQ2308853-04	79	75	81

Client: Bridgewater Group
Project: CSRM Dust Sampling/CSRM-007
Sample Matrix: Soil

Service Request: K2305592
Date Collected: 05/10/23
Date Received: 05/16/23
Date Analyzed: 05/23/23
Date Extracted: 05/22/23

Duplicate Matrix Spike Summary
Polycyclic Aromatic Hydrocarbons by GC/MS SIM

Sample Name: Baghouse 1
Lab Code: K2305592-001
Analysis Method: 8270D
Prep Method: EPA 3546

Units: ug/Kg
Basis: Dry

Analyte Name	Sample Result	Matrix Spike KQ2308853-01			Duplicate Matrix Spike KQ2308853-02			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Acenaphthene	ND U	313	500	63	212	477	44	30-101	38	40
Acenaphthylene	14	318	500	61	219	477	43	32-97	37	40
Anthracene	ND U	329	500	66	219	477	46	27-116	40	40
Benz(a)anthracene	8.5	327	500	64	214	477	43	27-127	42*	40
Benzo(a)pyrene	ND U	268	500	54	170	477	36	25-129	45*	40
Benzo(b)fluoranthene	27	295	500	54	205	477	37	21-130	36	40
Benzo(e)pyrene	16	289	500	55 *	195	477	37 *	70-130	39	40
Benzo(g,h,i)perylene	7.8	225	500	44	150	477	30	17-130	40	40
Benzo(k)fluoranthene	6.5	279	500	55	184	477	37	22-126	41*	40
Chrysene	38	357	500	64	259	477	46	25-132	32	40
Dibenz(a,h)anthracene	ND U	215	500	43	135	477	28 *	32-116	46*	40
Fluoranthene	130	431	500	60	364	477	49	10-138	17	40
Fluorene	13	338	500	65	233	477	46	23-116	37	40
Indeno(1,2,3-cd)pyrene	5.5	209	500	41	135	477	27	17-138	43*	40
Naphthalene	21	341	500	64	232	477	44	29-88	38	40
Perylene	ND U	265	500	53 *	158	477	33 *	70-130	51*	40
Phenanthrene	130	402	500	54	343	477	44	10-128	16	40
Pyrene	72	386	500	63	301	477	48	16-134	25	40

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Bridgewater Group
Project: CSRM Dust Sampling/CSRM-007
Sample Matrix: Soil

Service Request: K2305592
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: KQ2308853-04

Units: ug/Kg
Basis: Dry

Polycyclic Aromatic Hydrocarbons by GC/MS SIM

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Acenaphthene	ND U	4.8	1	05/23/23 18:41	5/22/23	
Acenaphthylene	ND U	4.8	1	05/23/23 18:41	5/22/23	
Anthracene	ND U	4.8	1	05/23/23 18:41	5/22/23	
Benz(a)anthracene	ND U	4.8	1	05/23/23 18:41	5/22/23	
Benzo(a)pyrene	ND U	4.8	1	05/23/23 18:41	5/22/23	
Benzo(b)fluoranthene	ND U	4.8	1	05/23/23 18:41	5/22/23	
Benzo(e)pyrene	ND U	4.8	1	05/23/23 18:41	5/22/23	
Benzo(g,h,i)perylene	ND U	4.8	1	05/23/23 18:41	5/22/23	
Benzo(k)fluoranthene	ND U	4.8	1	05/23/23 18:41	5/22/23	
Chrysene	ND U	4.8	1	05/23/23 18:41	5/22/23	
Dibenz(a,h)anthracene	ND U	4.8	1	05/23/23 18:41	5/22/23	
Fluoranthene	ND U	4.8	1	05/23/23 18:41	5/22/23	
Fluorene	ND U	4.8	1	05/23/23 18:41	5/22/23	
Indeno(1,2,3-cd)pyrene	ND U	4.8	1	05/23/23 18:41	5/22/23	
Naphthalene	ND U	4.8	1	05/23/23 18:41	5/22/23	
Perylene	ND U	4.8	1	05/23/23 18:41	5/22/23	
Phenanthrene	ND U	4.8	1	05/23/23 18:41	5/22/23	
Pyrene	ND U	4.8	1	05/23/23 18:41	5/22/23	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Fluoranthene-d10	79	28 - 112	05/23/23 18:41	
Fluorene-d10	75	34 - 106	05/23/23 18:41	
Terphenyl-d14	81	32 - 122	05/23/23 18:41	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Bridgewater Group
Project: CSRSM Dust Sampling/CSRSM-007
Sample Matrix: Soil

Service Request: K2305592
Date Analyzed: 05/23/23
Date Extracted: 05/22/23

Lab Control Sample Summary
Polycyclic Aromatic Hydrocarbons by GC/MS SIM

Analysis Method: 8270D
Prep Method: EPA 3546

Units: ug/Kg
Basis: Dry
Analysis Lot: 805353

Lab Control Sample
KQ2308853-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Acenaphthene	387	500	77	44-95
Acenaphthylene	387	500	77	44-93
Anthracene	413	500	83	46-100
Benz(a)anthracene	416	500	83	52-105
Benzo(a)pyrene	432	500	86	52-111
Benzo(b)fluoranthene	406	500	81	52-114
Benzo(e)pyrene	412	500	82	52-114
Benzo(g,h,i)perylene	495	500	99	45-107
Benzo(k)fluoranthene	416	500	83	52-112
Chrysene	436	500	87	51-110
Dibenz(a,h)anthracene	476	500	95	44-110
Fluoranthene	444	500	89	49-102
Fluorene	405	500	81	45-98
Indeno(1,2,3-cd)pyrene	477	500	95	44-117
Naphthalene	396	500	79	42-88
Perylene	416	500	83	48-106
Phenanthrene	403	500	81	41-99
Pyrene	426	500	85	48-104



Subcontract Lab Results

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com



ALS Environmental - Kelso
ATTN: Mark Harris
1317 South 13th Avenue
Kelso WA 98626

Date Received: 19-MAY-23
Report Date: 27-JUN-23 08:21 (MT)
Version: FINAL

Client Phone: 360-577-7222

Certificate of Analysis

Lab Work Order #: L2750776
Project P.O. #: 51K2305592
Job Reference: K2305592
C of C Numbers:
Legal Site Desc:

Michael Challis
Project Manager

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ADDRESS: 1435 Norjohn Court, Unit 1, Burlington, ON, L7L 0E6 Canada | Phone: +1 905 331 3111 | Fax: +1 905 331 4567
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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2750776-1 BAGHOUSE 1							
Sampled By: Client on 10-MAY-23 @ 09:00							
Matrix: Solid							
Miscellaneous Parameters							
% Moisture	0.27		0.10	%	01-JUN-23	02-JUN-23	R5954899
All PCB congeners by GC/HRMS							
PCB 1	153		0.14	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 2	508		0.10	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 3	709		0.083	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 4	209		0.20	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 10	11.4		0.085	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 9	84.6		0.091	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 7	74.7		0.091	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 6	206		0.090	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 5	84.3		0.10	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 8	786		0.082	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 14	86.6		0.20	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 11	179		0.20	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 13/12	842		0.19	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 15	620		0.17	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 19	76.2		0.085	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 30/18	678		0.088	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 17	296		0.096	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 27	54.7		0.077	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 24	19.5		0.084	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 16	316		0.12	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 32	205		0.071	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 34	10.6		0.27	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 23	16.9		0.27	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 29/26	233		0.25	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 25	102		0.24	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 31	963		0.24	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 28/20	1140		0.26	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 21/33	784		0.25	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 22	437		0.27	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 36	20.8		0.23	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 39	31.6		0.28	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 38	322		0.27	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 35	239		0.27	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 37	737		0.25	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 54	1.98		0.045	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 50/53	109		0.11	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 45/51	157		0.11	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 46	48.8		0.12	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 52	813		0.11	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 73	<0.073	[U]	0.073	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 43	43.0		0.13	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 69/49	421		0.087	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 48	209		0.11	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 44/47/65	707		0.095	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 59/62/75	101		0.076	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 42	231		0.12	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 41/71/40	484		0.10	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 64	334		0.076	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 72	7.96		0.21	pg/g	01-JUN-23	13-JUN-23	R5958116

* 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
L2750776-1 BAGHOUSE 1							
Sampled By: Client on 10-MAY-23 @ 09:00							
Matrix: Solid							
All PCB congeners by GC/HRMS							
PCB 68	9.00	M	0.20	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 57	15.4		0.22	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 58	24.2		0.22	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 67	42.1		0.18	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 63	35.4		0.21	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 61/70/74/76	1080		0.21	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 66	490		0.20	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 55	56.9		0.22	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 56	311		0.22	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 60	175		0.21	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 80	5.62		0.18	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 79	58.6		0.19	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 78	87.1	M	0.23	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 81	89.2		0.23	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 77	352		0.26	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 104	0.210	M,J,R	0.067	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 96	8.67		0.088	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 103	4.24		0.29	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 94	4.65		0.32	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 95	417		0.35	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 100/93/102/98	27.5		0.29	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 88/91	77.5		0.32	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 84	126		0.33	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 89	11.6		0.37	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 121	1.95		0.22	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 92	84.6		0.34	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 113/90/101	414		0.26	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 83/99	470	M	0.32	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 112	157	M	0.21	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 109/119/86/97/125/87	342	M	0.25	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 117/116/85/110/115	717	M	0.24	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 82	100		0.38	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 111	7.08		0.22	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 120	10.7		0.21	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 108/124	45.1		0.26	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 107	59.3		0.21	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 123	28.0		0.31	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 106	29.1		0.28	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 118	605		0.29	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 122	69.1		0.33	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 114	48.1		0.29	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 105	388		0.29	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 127	27.0	M,R	0.24	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 126	237		0.31	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 155	0.105	M,J	0.069	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 152	1.41		0.11	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 150	1.61		0.097	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 136	63.3		0.11	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 145	1.53		0.11	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 148	2.09		0.14	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 151/135	123	M	0.14	pg/g	01-JUN-23	13-JUN-23	R5958116

* 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
L2750776-1 BAGHOUSE 1							
Sampled By: Client on 10-MAY-23 @ 09:00							
Matrix: Solid							
All PCB congeners by GC/HRMS							
PCB 154	4.91	M	0.12	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 144	22.8		0.14	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 147/149	296		0.35	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 134/143	30.8		0.43	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 139/140	14.6		0.35	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 131	16.6		0.44	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 142	3.76		0.44	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 132	183		0.41	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 133	10.6		0.41	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 165	2.56		0.30	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 146	71.2	M	0.32	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 161	3.65	M	0.28	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 168/153	394		0.29	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 141	157		0.35	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 130	60.9		0.41	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 137/164	130	M	0.31	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 138/163/129	638	M	0.36	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 160	11.4	M	0.26	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 158	83.7	M	0.23	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 128/166	113		0.31	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 159	15.5		0.25	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 162	22.4		0.27	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 167	55.3		0.28	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 156/157	244		0.41	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 169	56.1		0.28	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 188	1.27	M	0.25	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 179	22.0		0.36	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 184	2.16		0.36	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 176	10.9		0.36	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 186	0.91	[J]	0.36	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 178	16.1		0.50	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 175	9.03		0.48	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 187	79.8		0.46	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 182	3.68		0.47	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 183	48.7		0.44	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 185	6.80		0.53	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 174	61.4		0.46	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 177	37.7		0.49	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 181	4.48		0.51	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 171/173	37.3		0.52	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 172	33.6		0.49	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 192	11.6		0.41	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 180/193	180		0.40	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 191	33.6		0.35	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 170	119		0.49	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 190	36.5		0.32	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 189	60.8		0.35	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 202	11.7		0.075	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 201	13.5		0.096	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 204	1.83		0.097	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 197	7.88		0.10	pg/g	01-JUN-23	13-JUN-23	R5958116

* 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
L2750776-1 BAGHOUSE 1							
Sampled By: Client on 10-MAY-23 @ 09:00							
Matrix: Solid							
All PCB congeners by GC/HRMS							
PCB 200	6.82		0.10	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 198/199	65.8		0.14	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 196	33.8		0.13	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 203	46.0		0.13	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 195	17.4		0.46	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 194	58.7		0.44	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 205	50.4		0.60	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 208	18.0		0.083	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 207	18.0		0.099	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 206	70.0		0.20	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 209	31.6		0.073	pg/g	01-JUN-23	13-JUN-23	R5958116
Surrogate: 13C12 PCB 1	35.0		5-145	%	01-JUN-23	13-JUN-23	R5958116
Surrogate: 13C12 PCB 3	35.0		5-145	%	01-JUN-23	13-JUN-23	R5958116
Surrogate: 13C12 PCB 4	34.0		5-145	%	01-JUN-23	13-JUN-23	R5958116
Surrogate: 13C12 PCB 15	43.0		5-145	%	01-JUN-23	13-JUN-23	R5958116
Surrogate: 13C12 PCB 19	36.0		5-145	%	01-JUN-23	13-JUN-23	R5958116
Surrogate: 13C12 PCB 37	49.0		5-145	%	01-JUN-23	13-JUN-23	R5958116
Surrogate: 13C12 PCB 54	42.0		5-145	%	01-JUN-23	13-JUN-23	R5958116
Surrogate: 13C12 PCB 81	51.0		10-145	%	01-JUN-23	13-JUN-23	R5958116
Surrogate: 13C12 PCB 77	47.0		10-145	%	01-JUN-23	13-JUN-23	R5958116
Surrogate: 13C12 PCB 104	44.0		10-145	%	01-JUN-23	13-JUN-23	R5958116
Surrogate: 13C12 PCB 123	47.0		10-145	%	01-JUN-23	13-JUN-23	R5958116
Surrogate: 13C12 PCB 118	48.0		10-145	%	01-JUN-23	13-JUN-23	R5958116
Surrogate: 13C12 PCB 114	51.0		10-145	%	01-JUN-23	13-JUN-23	R5958116
Surrogate: 13C12 PCB 105	48.0		10-145	%	01-JUN-23	13-JUN-23	R5958116
Surrogate: 13C12 PCB 126	49.0		10-145	%	01-JUN-23	13-JUN-23	R5958116
Surrogate: 13C12 PCB 155	46.0		10-145	%	01-JUN-23	13-JUN-23	R5958116
Surrogate: 13C12 PCB 167	45.0		10-145	%	01-JUN-23	13-JUN-23	R5958116
Surrogate: 13C12 PCB 156/157	43.0		10-145	%	01-JUN-23	13-JUN-23	R5958116
Surrogate: 13C12 PCB 169	47.0		10-145	%	01-JUN-23	13-JUN-23	R5958116
Surrogate: 13C12 PCB 188	64.0		10-145	%	01-JUN-23	13-JUN-23	R5958116
Surrogate: 13C12 PCB 189	56.0		10-145	%	01-JUN-23	13-JUN-23	R5958116
Surrogate: 13C12 PCB 202	68.0		10-145	%	01-JUN-23	13-JUN-23	R5958116
Surrogate: 13C12 PCB 205	44.0		10-145	%	01-JUN-23	13-JUN-23	R5958116
Surrogate: 13C12 PCB 208	69.0		10-145	%	01-JUN-23	13-JUN-23	R5958116
Surrogate: 13C12 PCB 206	54.0		10-145	%	01-JUN-23	13-JUN-23	R5958116
Surrogate: 13C12 PCB 209	81.0		10-145	%	01-JUN-23	13-JUN-23	R5958116
Surrogate: 13C12 PCB 28	48.0		5-145	%	01-JUN-23	13-JUN-23	R5958116
Surrogate: 13C12 PCB 111	51.0		10-145	%	01-JUN-23	13-JUN-23	R5958116
Surrogate: 13C12 PCB 178	50.0		10-145	%	01-JUN-23	13-JUN-23	R5958116
Total MonoCB	1370	[J]	0.083	pg/g	01-JUN-23	13-JUN-23	R5958116
Total DiCB	3180	[J]	0.082	pg/g	01-JUN-23	13-JUN-23	R5958116
Total TriCB	6680	[J]	0.071	pg/g	01-JUN-23	13-JUN-23	R5958116
Total TetraCB	6500	[J]	0.045	pg/g	01-JUN-23	13-JUN-23	R5958116
Total PentaCB	4520	[J]	0.067	pg/g	01-JUN-23	13-JUN-23	R5958116
Total HexaCB	2830	[J]	0.069	pg/g	01-JUN-23	13-JUN-23	R5958116
Total HeptaCB	817	[J]	0.25	pg/g	01-JUN-23	13-JUN-23	R5958116
Total OctaCB	314	[J]	0.075	pg/g	01-JUN-23	13-JUN-23	R5958116
Total NonaCB	106	[J]	0.083	pg/g	01-JUN-23	13-JUN-23	R5958116
DecaCB	31.6	[J]	0.073	pg/g	01-JUN-23	13-JUN-23	R5958116
Total PCB	26400	[J]	1.0	pg/g	01-JUN-23	13-JUN-23	R5958116

* 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
L2750776-1 BAGHOUSE 1							
Sampled By: Client on 10-MAY-23 @ 09:00							
Matrix: Solid							
All PCB congeners by GC/HRMS							
Lower Bound PCB TEQ (WHO 2005)	25.5			pg/g	01-JUN-23	13-JUN-23	R5958116
Mid Point PCB TEQ (WHO 2005)	25.5			pg/g	01-JUN-23	13-JUN-23	R5958116
Upper Bound PCB TEQ (WHO 2005)	25.5			pg/g	01-JUN-23	13-JUN-23	R5958116
Dioxins and Furans HR 1613B							
2,3,7,8-TCDD	17.7		0.26	pg/g	01-JUN-23	11-JUN-23	R5958116
1,2,3,7,8-PeCDD	112		0.52	pg/g	01-JUN-23	11-JUN-23	R5958116
1,2,3,4,7,8-HxCDD	76.8		0.69	pg/g	01-JUN-23	11-JUN-23	R5958116
1,2,3,6,7,8-HxCDD	240		0.78	pg/g	01-JUN-23	11-JUN-23	R5958116
1,2,3,7,8,9-HxCDD	189		0.73	pg/g	01-JUN-23	11-JUN-23	R5958116
1,2,3,4,6,7,8-HpCDD	776		1.2	pg/g	01-JUN-23	11-JUN-23	R5958116
OCDD	436		0.82	pg/g	01-JUN-23	11-JUN-23	R5958116
2,3,7,8-TCDF	173		0.52	pg/g	01-JUN-23	24-JUN-23	R5958116
1,2,3,7,8-PeCDF	338		0.67	pg/g	01-JUN-23	11-JUN-23	R5958116
2,3,4,7,8-PeCDF	485		0.64	pg/g	01-JUN-23	11-JUN-23	R5958116
1,2,3,4,7,8-HxCDF	332		0.32	pg/g	01-JUN-23	11-JUN-23	R5958116
1,2,3,6,7,8-HxCDF	422		0.31	pg/g	01-JUN-23	11-JUN-23	R5958116
2,3,4,6,7,8-HxCDF	401		0.33	pg/g	01-JUN-23	11-JUN-23	R5958116
1,2,3,7,8,9-HxCDF	162		0.42	pg/g	01-JUN-23	11-JUN-23	R5958116
1,2,3,4,6,7,8-HpCDF	761		0.59	pg/g	01-JUN-23	11-JUN-23	R5958116
1,2,3,4,7,8,9-HpCDF	183		0.79	pg/g	01-JUN-23	11-JUN-23	R5958116
OCDF	368		1.3	pg/g	01-JUN-23	11-JUN-23	R5958116
Total-TCDD	1370		0.26	pg/g	01-JUN-23	11-JUN-23	R5958116
Total TCDD # Homologues	16				01-JUN-23	11-JUN-23	R5958116
Total-PeCDD	2950		0.52	pg/g	01-JUN-23	11-JUN-23	R5958116
Total PeCDD # Homologues	9				01-JUN-23	11-JUN-23	R5958116
Total-HxCDD	2960		0.78	pg/g	01-JUN-23	11-JUN-23	R5958116
Total HxCDD # Homologues	8				01-JUN-23	11-JUN-23	R5958116
Total-HpCDD	1600		1.2	pg/g	01-JUN-23	11-JUN-23	R5958116
Total HpCDD # Homologues	2				01-JUN-23	11-JUN-23	R5958116
Total-TCDF	6540		0.52	pg/g	01-JUN-23	24-JUN-23	R5958116
Total TCDF # Homologues	28				01-JUN-23	24-JUN-23	R5958116
Total-PeCDF	5610		0.67	pg/g	01-JUN-23	11-JUN-23	R5958116
Total PeCDF # Homologues	20				01-JUN-23	11-JUN-23	R5958116
Total-HxCDF	3570		0.42	pg/g	01-JUN-23	11-JUN-23	R5958116
Total HxCDF # Homologues	13				01-JUN-23	11-JUN-23	R5958116
Total-HpCDF	1380		0.79	pg/g	01-JUN-23	11-JUN-23	R5958116
Total HpCDF # Homologues	4				01-JUN-23	11-JUN-23	R5958116
Surrogate: 13C12-2,3,7,8-TCDD	94.0		25-164	%	01-JUN-23	11-JUN-23	R5958116
Surrogate: 13C12-1,2,3,7,8-PeCDD	93.0		25-181	%	01-JUN-23	11-JUN-23	R5958116
Surrogate: 13C12-1,2,3,4,7,8-HxCDD	99.0		32-141	%	01-JUN-23	11-JUN-23	R5958116
Surrogate: 13C12-1,2,3,6,7,8-HxCDD	86.0		28-130	%	01-JUN-23	11-JUN-23	R5958116
Surrogate: 13C12-1,2,3,4,6,7,8-HpCDD	75.0		23-140	%	01-JUN-23	11-JUN-23	R5958116
Surrogate: 13C12-OCDD	54.0		17-157	%	01-JUN-23	11-JUN-23	R5958116
Surrogate: 13C12-2,3,7,8-TCDF	96.0		24-169	%	01-JUN-23	24-JUN-23	R5958116
Surrogate: 13C12-1,2,3,7,8-PeCDF	107.0		24-185	%	01-JUN-23	11-JUN-23	R5958116
Surrogate: 13C12-2,3,4,7,8-PeCDF	107.0		21-178	%	01-JUN-23	11-JUN-23	R5958116
Surrogate: 13C12-1,2,3,4,7,8-HxCDF	109.0		26-152	%	01-JUN-23	11-JUN-23	R5958116
Surrogate: 13C12-1,2,3,6,7,8-HxCDF	107.0		26-123	%	01-JUN-23	11-JUN-23	R5958116
Surrogate: 13C12-2,3,4,6,7,8-HxCDF	103.0		29-147	%	01-JUN-23	11-JUN-23	R5958116
Surrogate: 13C12-1,2,3,7,8,9-HxCDF	105.0		28-136	%	01-JUN-23	11-JUN-23	R5958116
Surrogate: 13C12-1,2,3,4,6,7,8-HpCDF	87.0		28-143	%	01-JUN-23	11-JUN-23	R5958116

* 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
L2750776-1 BAGHOUSE 1 Sampled By: Client on 10-MAY-23 @ 09:00 Matrix: Solid							
Dioxins and Furans HR 1613B							
Surrogate: 13C12-1,2,3,4,7,8,9-HpCDF	89.0		26-138	%	01-JUN-23	11-JUN-23	R5958116
Surrogate: 37Cl4-2,3,7,8-TCDD (Cleanup)	103.0		31-197	%	01-JUN-23	11-JUN-23	R5958116
Lower Bound PCDD/F TEQ (WHO 2005)	502		0	pg/g	01-JUN-23	11-JUN-23	R5958116
Mid Point PCDD/F TEQ (WHO 2005)	502		0	pg/g	01-JUN-23	11-JUN-23	R5958116
Upper Bound PCDD/F TEQ (WHO 2005)	502		0	pg/g	01-JUN-23	11-JUN-23	R5958116
L2750776-2 BAGHOUSE 2 Sampled By: Client on 10-MAY-23 @ 09:10 Matrix: Solid							
Miscellaneous Parameters							
% Moisture	1.64		0.10	%	01-JUN-23	02-JUN-23	R5954899
All PCB congeners by GC/HRMS							
PCB 1	161		0.44	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 2	386		0.33	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 3	446		0.26	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 4	528		1.1	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 10	28.2		0.65	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 9	198		0.66	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 7	149		0.69	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 6	606		0.68	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 5	66.2	M	0.74	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 8	2360	M	0.61	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 14	30.3		1.1	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 11	612		1.1	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 13/12	705		1.1	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 15	1760		1.2	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 19	313		0.48	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 30/18	3570		0.76	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 17	1780		0.88	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 27	294		0.66	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 24	48.8		0.72	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 16	1540		1.0	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 32	1120		0.60	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 34	36.0		1.7	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 23	23.5		1.6	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 29/26	1320		1.5	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 25	661		1.5	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 31	5480		1.5	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 28/20	6840		1.6	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 21/33	4310		1.5	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 22	2820		1.7	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 36	24.7		1.4	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 39	61.9		1.7	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 38	72.9		1.6	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 35	395		1.6	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 37	3280		1.9	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 54	8.27	[J]	0.22	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 50/53	679		0.79	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 45/51	637		0.81	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 46	318		0.91	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 52	4320		0.80	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 73	<0.55	[U]	0.55	pg/g	01-JUN-23	09-JUN-23	R5958116

* 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
L2750776-2 BAGHOUSE 2							
Sampled By: Client on 10-MAY-23 @ 09:10							
Matrix: Solid							
All PCB congeners by GC/HRMS							
PCB 43	235		0.98	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 69/49	2280		0.65	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 48	1190		0.79	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 44/47/65	4200		0.71	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 59/62/75	476		0.57	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 42	1410		0.86	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 41/71/40	2990		0.79	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 64	1840		0.56	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 72	40.9		1.0	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 68	33.3		1.0	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 57	54.9		1.1	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 58	13.3	M	1.1	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 67	271		0.91	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 63	210		1.0	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 61/70/74/76	8390		1.1	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 66	3940		0.99	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 55	204		1.1	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 56	2360		1.1	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 60	1360	M	1.1	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 80	3.99	M,J	0.88	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 79	78.9		0.93	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 78	44.0	M,R	1.2	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 81	72.3		1.7	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 77	969		1.7	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 104	0.60	J,R	0.29	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 96	40.2		0.53	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 103	22.8		1.4	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 94	31.0		1.5	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 95	3080		1.6	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 100/93/102/98	199		1.4	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 88/91	610		1.5	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 84	1050		1.5	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 89	94.2		1.8	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 121	6.4	[J]	1.0	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 92	785		1.6	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 113/90/101	3960		1.2	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 83/99	2990		1.5	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 112	370	M,R	1.0	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 109/119/86/97/125/87	3350	M	1.2	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 117/116/85/110/115	6300	M	1.1	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 82	860	M	1.8	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 111	8.5	M,J,R	1.0	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 120	19.4		0.97	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 108/124	253		1.3	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 107	409	M	1.2	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 123	103	M	1.8	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 106	18.0	M,R	1.4	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 118	6200	M	1.8	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 122	129	M	1.7	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 114	173		1.9	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 105	3070		1.8	pg/g	01-JUN-23	09-JUN-23	R5958116

* 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
L2750776-2 BAGHOUSE 2							
Sampled By: Client on 10-MAY-23 @ 09:10							
Matrix: Solid							
All PCB congeners by GC/HRMS							
PCB 127	21.2		1.3	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 126	136		2.5	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 155	<0.62	[U]	0.62	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 152	4.7	J,R	1.3	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 150	6.2	M,J	1.3	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 136	413		1.4	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 145	4.0	[J]	1.3	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 148	4.6	[J]	1.8	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 151/135	1110	M	1.9	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 154	26.7	M	1.4	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 144	185		1.8	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 147/149	5390		11	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 134/143	522		13	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 139/140	174		11	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 131	159		13	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 142	<13	[U]	13	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 132	2670		13	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 133	110		12	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 165	<9.2	[U]	9.2	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 146	994	M	10	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 161	<8.6	M,U	8.6	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 168/153	5930		8.9	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 141	1890	M	11	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 130	727		13	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 137/164	1330	M	9.8	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 138/163/129	9710	M	11	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 160	60.2	M	8.7	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 158	812	M	7.6	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 128/166	1410		9.6	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 159	45.6		7.5	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 162	39.2	M	7.9	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 167	331		9.0	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 156/157	999		12	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 169	53.0	M	9.6	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 188	4.6	[J]	1.5	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 179	373		2.0	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 184	4.1	M,J,R	2.0	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 176	128		2.1	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 186	3.6	M,J,R	2.2	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 178	162		3.0	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 175	51.0		2.8	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 187	1110		2.6	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 182	8.3	[J]	2.6	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 183	533		2.6	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 185	82.6	M	2.7	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 174	872	M	2.6	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 177	394		2.7	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 181	16.2		2.6	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 171/173	229		2.7	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 172	172		2.6	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 192	21.9	M	2.2	pg/g	01-JUN-23	09-JUN-23	R5958116

* 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
L2750776-2 BAGHOUSE 2							
Sampled By: Client on 10-MAY-23 @ 09:10							
Matrix: Solid							
All PCB congeners by GC/HRMS							
PCB 180/193	1590		2.1	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 191	84.6	M	1.8	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 170	649		2.5	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 190	150		1.7	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 189	69.2		2.9	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 202	169		1.0	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 201	103		1.1	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 204	3.7	[J]	1.1	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 197	22.0	R	1.2	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 200	95.2		1.2	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 198/199	831		1.7	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 196	308		1.6	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 203	502		1.6	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 195	210		2.5	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 194	679		2.3	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 205	104		2.7	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 208	145		1.6	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 207	69.5		1.6	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 206	423		2.4	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 209	145		0.75	pg/g	01-JUN-23	09-JUN-23	R5958116
Surrogate: 13C12 PCB 1	63.0		5-145	%	01-JUN-23	09-JUN-23	R5958116
Surrogate: 13C12 PCB 3	66.0		5-145	%	01-JUN-23	09-JUN-23	R5958116
Surrogate: 13C12 PCB 4	62.0		5-145	%	01-JUN-23	09-JUN-23	R5958116
Surrogate: 13C12 PCB 15	58.0		5-145	%	01-JUN-23	09-JUN-23	R5958116
Surrogate: 13C12 PCB 19	66.0		5-145	%	01-JUN-23	09-JUN-23	R5958116
Surrogate: 13C12 PCB 37	71.0		5-145	%	01-JUN-23	09-JUN-23	R5958116
Surrogate: 13C12 PCB 54	103.0		5-145	%	01-JUN-23	09-JUN-23	R5958116
Surrogate: 13C12 PCB 81	81.0		10-145	%	01-JUN-23	09-JUN-23	R5958116
Surrogate: 13C12 PCB 77	78.0		10-145	%	01-JUN-23	09-JUN-23	R5958116
Surrogate: 13C12 PCB 104	102.0		10-145	%	01-JUN-23	09-JUN-23	R5958116
Surrogate: 13C12 PCB 123	71.0		10-145	%	01-JUN-23	09-JUN-23	R5958116
Surrogate: 13C12 PCB 118	71.0		10-145	%	01-JUN-23	09-JUN-23	R5958116
Surrogate: 13C12 PCB 114	71.0		10-145	%	01-JUN-23	09-JUN-23	R5958116
Surrogate: 13C12 PCB 105	67.0		10-145	%	01-JUN-23	09-JUN-23	R5958116
Surrogate: 13C12 PCB 126	55.0		10-145	%	01-JUN-23	09-JUN-23	R5958116
Surrogate: 13C12 PCB 155	60.0		10-145	%	01-JUN-23	09-JUN-23	R5958116
Surrogate: 13C12 PCB 167	53.0		10-145	%	01-JUN-23	09-JUN-23	R5958116
Surrogate: 13C12 PCB 156/157	53.0		10-145	%	01-JUN-23	09-JUN-23	R5958116
Surrogate: 13C12 PCB 169	51.0		10-145	%	01-JUN-23	09-JUN-23	R5958116
Surrogate: 13C12 PCB 188	70.0		10-145	%	01-JUN-23	09-JUN-23	R5958116
Surrogate: 13C12 PCB 189	72.0		10-145	%	01-JUN-23	09-JUN-23	R5958116
Surrogate: 13C12 PCB 202	46.0		10-145	%	01-JUN-23	09-JUN-23	R5958116
Surrogate: 13C12 PCB 205	58.0		10-145	%	01-JUN-23	09-JUN-23	R5958116
Surrogate: 13C12 PCB 208	51.0		10-145	%	01-JUN-23	09-JUN-23	R5958116
Surrogate: 13C12 PCB 206	73.0		10-145	%	01-JUN-23	09-JUN-23	R5958116
Surrogate: 13C12 PCB 209	103.0		10-145	%	01-JUN-23	09-JUN-23	R5958116
Surrogate: 13C12 PCB 28	97.0	R	5-145	%	01-JUN-23	09-JUN-23	R5958116
Surrogate: 13C12 PCB 111	62.0		10-145	%	01-JUN-23	09-JUN-23	R5958116
Surrogate: 13C12 PCB 178	55.0		10-145	%	01-JUN-23	09-JUN-23	R5958116
Total MonoCB	993	[J]	0.26	pg/g	01-JUN-23	09-JUN-23	R5958116
Total DiCB	7040	[J]	0.61	pg/g	01-JUN-23	09-JUN-23	R5958116

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2750776-2 BAGHOUSE 2							
Sampled By: Client on 10-MAY-23 @ 09:10							
Matrix: Solid							
All PCB congeners by GC/HRMS							
Total TriCB	34000	[J]	0.48	pg/g	01-JUN-23	09-JUN-23	R5958116
Total TetraCB	38600	[J]	0.22	pg/g	01-JUN-23	09-JUN-23	R5958116
Total PentaCB	34300	[J]	0.29	pg/g	01-JUN-23	09-JUN-23	R5958116
Total HexaCB	35100	[J]	0.62	pg/g	01-JUN-23	09-JUN-23	R5958116
Total HeptaCB	6710	[J]	1.5	pg/g	01-JUN-23	09-JUN-23	R5958116
Total OctaCB	3030	[J]	1.0	pg/g	01-JUN-23	09-JUN-23	R5958116
Total NonaCB	638	[J]	1.6	pg/g	01-JUN-23	09-JUN-23	R5958116
DecaCB	145	[J]	0.75	pg/g	01-JUN-23	09-JUN-23	R5958116
Total PCB	161000	[J]	1.0	pg/g	01-JUN-23	09-JUN-23	R5958116
Lower Bound PCB TEQ (WHO 2005)	15.6			pg/g	01-JUN-23	09-JUN-23	R5958116
Mid Point PCB TEQ (WHO 2005)	15.6			pg/g	01-JUN-23	09-JUN-23	R5958116
Upper Bound PCB TEQ (WHO 2005)	15.6			pg/g	01-JUN-23	09-JUN-23	R5958116
Dioxins and Furans HR 1613B							
2,3,7,8-TCDD	8.39		0.26	pg/g	01-JUN-23	11-JUN-23	R5958116
1,2,3,7,8-PeCDD	29.6		0.38	pg/g	01-JUN-23	11-JUN-23	R5958116
1,2,3,4,7,8-HxCDD	15.7		0.72	pg/g	01-JUN-23	11-JUN-23	R5958116
1,2,3,6,7,8-HxCDD	32.5		0.81	pg/g	01-JUN-23	11-JUN-23	R5958116
1,2,3,7,8,9-HxCDD	25.3		0.76	pg/g	01-JUN-23	11-JUN-23	R5958116
1,2,3,4,6,7,8-HpCDD	161		1.1	pg/g	01-JUN-23	11-JUN-23	R5958116
OCDD	463		1.2	pg/g	01-JUN-23	11-JUN-23	R5958116
2,3,7,8-TCDF	199		0.61	pg/g	01-JUN-23	24-JUN-23	R5958116
1,2,3,7,8-PeCDF	152		1.1	pg/g	01-JUN-23	11-JUN-23	R5958116
2,3,4,7,8-PeCDF	246		0.98	pg/g	01-JUN-23	11-JUN-23	R5958116
1,2,3,4,7,8-HxCDF	130		0.46	pg/g	01-JUN-23	11-JUN-23	R5958116
1,2,3,6,7,8-HxCDF	132		0.47	pg/g	01-JUN-23	11-JUN-23	R5958116
2,3,4,6,7,8-HxCDF	145		0.49	pg/g	01-JUN-23	11-JUN-23	R5958116
1,2,3,7,8,9-HxCDF	60.2		0.65	pg/g	01-JUN-23	11-JUN-23	R5958116
1,2,3,4,6,7,8-HpCDF	300		0.57	pg/g	01-JUN-23	11-JUN-23	R5958116
1,2,3,4,7,8,9-HpCDF	56.4		0.81	pg/g	01-JUN-23	11-JUN-23	R5958116
OCDF	206		5.5	pg/g	01-JUN-23	11-JUN-23	R5958116
Total-TCDD	372		0.26	pg/g	01-JUN-23	11-JUN-23	R5958116
Total TCDD # Homologues	16				01-JUN-23	11-JUN-23	R5958116
Total-PeCDD	397		0.38	pg/g	01-JUN-23	11-JUN-23	R5958116
Total PeCDD # Homologues	9				01-JUN-23	11-JUN-23	R5958116
Total-HxCDD	381		0.81	pg/g	01-JUN-23	11-JUN-23	R5958116
Total HxCDD # Homologues	8				01-JUN-23	11-JUN-23	R5958116
Total-HpCDD	327		1.1	pg/g	01-JUN-23	11-JUN-23	R5958116
Total HpCDD # Homologues	2				01-JUN-23	11-JUN-23	R5958116
Total-TCDF	4970		0.61	pg/g	01-JUN-23	24-JUN-23	R5958116
Total TCDF # Homologues	26				01-JUN-23	24-JUN-23	R5958116
Total-PeCDF	2930		1.1	pg/g	01-JUN-23	11-JUN-23	R5958116
Total PeCDF # Homologues	16				01-JUN-23	11-JUN-23	R5958116
Total-HxCDF	1330		0.65	pg/g	01-JUN-23	11-JUN-23	R5958116
Total HxCDF # Homologues	13				01-JUN-23	11-JUN-23	R5958116
Total-HpCDF	498		0.81	pg/g	01-JUN-23	11-JUN-23	R5958116
Total HpCDF # Homologues	4				01-JUN-23	11-JUN-23	R5958116
Surrogate: 13C12-2,3,7,8-TCDD	85.0		25-164	%	01-JUN-23	11-JUN-23	R5958116
Surrogate: 13C12-1,2,3,7,8-PeCDD	77.0		25-181	%	01-JUN-23	11-JUN-23	R5958116
Surrogate: 13C12-1,2,3,4,7,8-HxCDD	86.0		32-141	%	01-JUN-23	11-JUN-23	R5958116
Surrogate: 13C12-1,2,3,6,7,8-HxCDD	78.0		28-130	%	01-JUN-23	11-JUN-23	R5958116
Surrogate: 13C12-1,2,3,4,6,7,8-HpCDD	59.0		23-140	%	01-JUN-23	11-JUN-23	R5958116

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2750776-2 BAGHOUSE 2							
Sampled By: Client on 10-MAY-23 @ 09:10							
Matrix: Solid							
Dioxins and Furans HR 1613B							
Surrogate: 13C12-OCDD	33.0		17-157	%	01-JUN-23	11-JUN-23	R5958116
Surrogate: 13C12-2,3,7,8-TCDF	86.0		24-169	%	01-JUN-23	24-JUN-23	R5958116
Surrogate: 13C12-1,2,3,7,8-PeCDF	74.0		24-185	%	01-JUN-23	11-JUN-23	R5958116
Surrogate: 13C12-2,3,4,7,8-PeCDF	84.0		21-178	%	01-JUN-23	11-JUN-23	R5958116
Surrogate: 13C12-1,2,3,4,7,8-HxCDF	98.0		26-152	%	01-JUN-23	11-JUN-23	R5958116
Surrogate: 13C12-1,2,3,6,7,8-HxCDF	87.0		26-123	%	01-JUN-23	11-JUN-23	R5958116
Surrogate: 13C12-2,3,4,6,7,8-HxCDF	88.0		29-147	%	01-JUN-23	11-JUN-23	R5958116
Surrogate: 13C12-1,2,3,7,8,9-HxCDF	84.0		28-136	%	01-JUN-23	11-JUN-23	R5958116
Surrogate: 13C12-1,2,3,4,6,7,8-HpCDF	68.0	R	28-143	%	01-JUN-23	11-JUN-23	R5958116
Surrogate: 13C12-1,2,3,4,7,8,9-HpCDF	62.0		26-138	%	01-JUN-23	11-JUN-23	R5958116
Surrogate: 37Cl4-2,3,7,8-TCDD (Cleanup)	83.0		31-197	%	01-JUN-23	11-JUN-23	R5958116
Lower Bound PCDD/F TEQ (WHO 2005)	196		0	pg/g	01-JUN-23	11-JUN-23	R5958116
Mid Point PCDD/F TEQ (WHO 2005)	196		0	pg/g	01-JUN-23	11-JUN-23	R5958116
Upper Bound PCDD/F TEQ (WHO 2005)	196		0	pg/g	01-JUN-23	11-JUN-23	R5958116
L2750776-3 BAGHOUSE DUST 1							
Sampled By: Client on 13-APR-23 @ 12:00							
Matrix: Solid							
Miscellaneous Parameters							
% Moisture	0.37		0.10	%	01-JUN-23	02-JUN-23	R5954899
All PCB congeners by GC/HRMS							
PCB 1	160		0.11	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 2	544		0.098	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 3	659		0.085	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 4	193		0.28	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 10	10.8		0.13	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 9	91.2		0.13	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 7	77.7		0.13	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 6	194		0.13	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 5	108		0.15	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 8	672		0.12	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 14	107		0.28	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 11	200		0.28	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 13/12	965		0.27	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 15	541		0.25	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 19	70.1		0.10	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 30/18	620		0.17	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 17	270		0.18	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 27	49.8		0.14	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 24	19.1		0.16	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 16	288		0.22	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 32	185		0.13	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 34	15.1		0.11	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 23	28.1		0.11	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 29/26	251		0.10	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 25	100		0.10	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 31	912		0.099	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 28/20	1070		0.11	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 21/33	786		0.10	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 22	417		0.11	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 36	28.7		0.096	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 39	39.0		0.11	pg/g	01-JUN-23	13-JUN-23	R5958116

* 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
L2750776-3 BAGHOUSE DUST 1							
Sampled By: Client on 13-APR-23 @ 12:00							
Matrix: Solid							
All PCB congeners by GC/HRMS							
PCB 38	430		0.11	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 35	294		0.11	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 37	702		0.10	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 54	1.66		0.10	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 50/53	99.9		0.18	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 45/51	136		0.18	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 46	43.6		0.20	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 52	826		0.18	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 73	<0.12	[U]	0.12	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 43	41.9		0.22	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 69/49	390		0.15	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 48	202		0.18	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 44/47/65	629		0.16	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 59/62/75	101		0.13	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 42	197		0.20	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 41/71/40	420		0.17	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 64	283		0.13	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 72	12.6		0.21	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 68	12.6		0.21	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 57	19.1		0.22	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 58	25.7		0.23	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 67	46.2		0.19	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 63	33.8		0.21	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 61/70/74/76	1100		0.22	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 66	430		0.21	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 55	63.5		0.23	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 56	300		0.23	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 60	159		0.22	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 80	6.03	M	0.19	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 79	73.7		0.20	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 78	110	M,R	0.25	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 81	116		0.24	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 77	422		0.26	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 104	0.383	M,J	0.056	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 96	6.17		0.076	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 103	6.06		0.15	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 94	4.23		0.17	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 95	389		0.18	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 100/93/102/98	26.9		0.15	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 88/91	76.1		0.17	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 84	120		0.17	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 89	11.9		0.19	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 121	2.78		0.11	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 92	130		0.18	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 113/90/101	671		0.14	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 83/99	494		0.17	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 112	64.1	M	0.11	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 109/119/86/97/125/87	442	M	0.13	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 117/116/85/110/115	874	M	0.13	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 82	122		0.20	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 111	12.9		0.11	pg/g	01-JUN-23	13-JUN-23	R5958116

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2750776-3 BAGHOUSE DUST 1							
Sampled By: Client on 13-APR-23 @ 12:00							
Matrix: Solid							
All PCB congeners by GC/HRMS							
PCB 120	20.3	M	0.11	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 108/124	65.1		0.37	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 107	69.0	M	0.31	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 123	40.0	M	0.45	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 106	45.3		0.41	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 118	758		0.43	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 122	93.6		0.49	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 114	63.5		0.45	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 105	485		0.43	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 127	38.0	M,R	0.36	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 126	337		0.47	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 155	0.202	M,J	0.083	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 152	1.09	[J]	0.13	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 150	1.61		0.12	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 136	35.7		0.13	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 145	1.68		0.13	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 148	3.24	M	0.17	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 151/135	107		0.17	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 154	7.74		0.14	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 144	27.9		0.17	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 147/149	242		0.83	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 134/143	26.1		1.0	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 139/140	14.8		0.83	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 131	16.7		1.0	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 142	5.0		1.0	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 132	144		0.98	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 133	15.4		0.97	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 165	4.24		0.71	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 146	98.1		0.75	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 161	8.43		0.66	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 168/153	578		0.68	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 141	140	M	0.83	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 130	55.2		0.96	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 137/164	112	M	0.73	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 138/163/129	576	M	0.86	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 160	10.8	M	0.62	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 158	82.1		0.55	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 128/166	106		0.73	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 159	28.1		0.60	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 162	39.2		0.64	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 167	68.3		0.50	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 156/157	316		1.1	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 169	87.2		0.75	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 188	1.20	M,J	0.081	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 179	15.4		0.11	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 184	2.58		0.11	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 176	8.87		0.11	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 186	1.07	[J]	0.11	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 178	18.7		0.16	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 175	13.2		0.15	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 187	92.6		0.15	pg/g	01-JUN-23	13-JUN-23	R5958116

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2750776-3 BAGHOUSE DUST 1							
Sampled By: Client on 13-APR-23 @ 12:00							
Matrix: Solid							
All PCB congeners by GC/HRMS							
PCB 182	5.90		0.15	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 183	61.6		0.14	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 185	8.85		0.17	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 174	43.8		0.15	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 177	23.4		0.15	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 181	4.02		0.16	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 171/173	30.3		0.16	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 172	45.3		0.15	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 192	12.5		0.13	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 180/193	210		0.12	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 191	41.5		0.11	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 170	86.4		0.15	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 190	36.8		0.10	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 189	97.6		0.29	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 202	11.2		0.055	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 201	14.4		0.064	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 204	1.99		0.065	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 197	9.63		0.070	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 200	6.87		0.068	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 198/199	72.2		0.093	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 196	47.6		0.088	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 203	53.6		0.087	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 195	15.8		0.19	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 194	73.0		0.18	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 205	58.0		0.22	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 208	20.5		0.059	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 207	22.2		0.065	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 206	87.4		0.11	pg/g	01-JUN-23	13-JUN-23	R5958116
PCB 209	45.6		0.059	pg/g	01-JUN-23	13-JUN-23	R5958116
Surrogate: 13C12 PCB 1	42.0		5-145	%	01-JUN-23	13-JUN-23	R5958116
Surrogate: 13C12 PCB 3	41.0		5-145	%	01-JUN-23	13-JUN-23	R5958116
Surrogate: 13C12 PCB 4	40.0		5-145	%	01-JUN-23	13-JUN-23	R5958116
Surrogate: 13C12 PCB 15	48.0		5-145	%	01-JUN-23	13-JUN-23	R5958116
Surrogate: 13C12 PCB 19	43.0		5-145	%	01-JUN-23	13-JUN-23	R5958116
Surrogate: 13C12 PCB 37	53.0		5-145	%	01-JUN-23	13-JUN-23	R5958116
Surrogate: 13C12 PCB 54	48.0		5-145	%	01-JUN-23	13-JUN-23	R5958116
Surrogate: 13C12 PCB 81	56.0		10-145	%	01-JUN-23	13-JUN-23	R5958116
Surrogate: 13C12 PCB 77	53.0		10-145	%	01-JUN-23	13-JUN-23	R5958116
Surrogate: 13C12 PCB 104	56.0		10-145	%	01-JUN-23	13-JUN-23	R5958116
Surrogate: 13C12 PCB 123	56.0		10-145	%	01-JUN-23	13-JUN-23	R5958116
Surrogate: 13C12 PCB 118	57.0		10-145	%	01-JUN-23	13-JUN-23	R5958116
Surrogate: 13C12 PCB 114	56.0		10-145	%	01-JUN-23	13-JUN-23	R5958116
Surrogate: 13C12 PCB 105	55.0		10-145	%	01-JUN-23	13-JUN-23	R5958116
Surrogate: 13C12 PCB 126	56.0		10-145	%	01-JUN-23	13-JUN-23	R5958116
Surrogate: 13C12 PCB 155	61.0		10-145	%	01-JUN-23	13-JUN-23	R5958116
Surrogate: 13C12 PCB 167	77.0		10-145	%	01-JUN-23	13-JUN-23	R5958116
Surrogate: 13C12 PCB 156/157	48.0		10-145	%	01-JUN-23	13-JUN-23	R5958116
Surrogate: 13C12 PCB 169	53.0		10-145	%	01-JUN-23	13-JUN-23	R5958116
Surrogate: 13C12 PCB 188	98.0		10-145	%	01-JUN-23	13-JUN-23	R5958116
Surrogate: 13C12 PCB 189	85.0		10-145	%	01-JUN-23	13-JUN-23	R5958116
Surrogate: 13C12 PCB 202	111.0		10-145	%	01-JUN-23	13-JUN-23	R5958116

* 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
L2750776-3 BAGHOUSE DUST 1							
Sampled By: Client on 13-APR-23 @ 12:00							
Matrix: Solid							
All PCB congeners by GC/HRMS							
Surrogate: 13C12 PCB 205	87.0		10-145	%	01-JUN-23	13-JUN-23	R5958116
Surrogate: 13C12 PCB 208	101.0		10-145	%	01-JUN-23	13-JUN-23	R5958116
Surrogate: 13C12 PCB 206	105.0		10-145	%	01-JUN-23	13-JUN-23	R5958116
Surrogate: 13C12 PCB 209	112.0		10-145	%	01-JUN-23	13-JUN-23	R5958116
Surrogate: 13C12 PCB 28	56.0		5-145	%	01-JUN-23	13-JUN-23	R5958116
Surrogate: 13C12 PCB 111	92.0		10-145	%	01-JUN-23	13-JUN-23	R5958116
Surrogate: 13C12 PCB 178	93.0		10-145	%	01-JUN-23	13-JUN-23	R5958116
Total MonoCB	1360	[J]	0.085	pg/g	01-JUN-23	13-JUN-23	R5958116
Total DiCB	3160	[J]	0.12	pg/g	01-JUN-23	13-JUN-23	R5958116
Total TriCB	6570	[J]	0.096	pg/g	01-JUN-23	13-JUN-23	R5958116
Total TetraCB	6300	[J]	0.10	pg/g	01-JUN-23	13-JUN-23	R5958116
Total PentaCB	5470	[J]	0.056	pg/g	01-JUN-23	13-JUN-23	R5958116
Total HexaCB	2960	[J]	0.083	pg/g	01-JUN-23	13-JUN-23	R5958116
Total HeptaCB	862	[J]	0.081	pg/g	01-JUN-23	13-JUN-23	R5958116
Total OctaCB	364	[J]	0.055	pg/g	01-JUN-23	13-JUN-23	R5958116
Total NonaCB	130	[J]	0.059	pg/g	01-JUN-23	13-JUN-23	R5958116
DecaCB	45.6	[J]	0.059	pg/g	01-JUN-23	13-JUN-23	R5958116
Total PCB	27200	[J]	1.0	pg/g	01-JUN-23	13-JUN-23	R5958116
Lower Bound PCB TEQ (WHO 2005)	36.4			pg/g	01-JUN-23	13-JUN-23	R5958116
Mid Point PCB TEQ (WHO 2005)	36.4			pg/g	01-JUN-23	13-JUN-23	R5958116
Upper Bound PCB TEQ (WHO 2005)	36.4			pg/g	01-JUN-23	13-JUN-23	R5958116
Dioxins and Furans HR 1613B							
2,3,7,8-TCDD	20.8		0.51	pg/g	01-JUN-23	11-JUN-23	R5958116
1,2,3,7,8-PeCDD	171		0.81	pg/g	01-JUN-23	11-JUN-23	R5958116
1,2,3,4,7,8-HxCDD	119		1.8	pg/g	01-JUN-23	11-JUN-23	R5958116
1,2,3,6,7,8-HxCDD	376		1.9	pg/g	01-JUN-23	11-JUN-23	R5958116
1,2,3,7,8,9-HxCDD	301		1.9	pg/g	01-JUN-23	11-JUN-23	R5958116
1,2,3,4,6,7,8-HpCDD	1220		1.5	pg/g	01-JUN-23	11-JUN-23	R5958116
OCDD	616		1.3	pg/g	01-JUN-23	11-JUN-23	R5958116
2,3,7,8-TCDF	211		2.5	pg/g	01-JUN-23	24-JUN-23	R5958116
1,2,3,7,8-PeCDF	434		0.95	pg/g	01-JUN-23	11-JUN-23	R5958116
2,3,4,7,8-PeCDF	699		0.98	pg/g	01-JUN-23	11-JUN-23	R5958116
1,2,3,4,7,8-HxCDF	491		1.1	pg/g	01-JUN-23	11-JUN-23	R5958116
1,2,3,6,7,8-HxCDF	603		1.1	pg/g	01-JUN-23	11-JUN-23	R5958116
2,3,4,6,7,8-HxCDF	617		1.3	pg/g	01-JUN-23	11-JUN-23	R5958116
1,2,3,7,8,9-HxCDF	247		1.6	pg/g	01-JUN-23	11-JUN-23	R5958116
1,2,3,4,6,7,8-HpCDF	1170		0.77	pg/g	01-JUN-23	11-JUN-23	R5958116
1,2,3,4,7,8,9-HpCDF	267		1.1	pg/g	01-JUN-23	11-JUN-23	R5958116
OCDF	644		1.9	pg/g	01-JUN-23	11-JUN-23	R5958116
Total-TCDD	2080		0.51	pg/g	01-JUN-23	11-JUN-23	R5958116
Total TCDD # Homologues	16				01-JUN-23	11-JUN-23	R5958116
Total-PeCDD	4890		0.81	pg/g	01-JUN-23	11-JUN-23	R5958116
Total PeCDD # Homologues	9				01-JUN-23	11-JUN-23	R5958116
Total-HxCDD	4960		1.9	pg/g	01-JUN-23	11-JUN-23	R5958116
Total HxCDD # Homologues	8				01-JUN-23	11-JUN-23	R5958116
Total-HpCDD	2560		1.5	pg/g	01-JUN-23	11-JUN-23	R5958116
Total HpCDD # Homologues	2				01-JUN-23	11-JUN-23	R5958116
Total-TCDF	9050		2.5	pg/g	01-JUN-23	24-JUN-23	R5958116
Total TCDF # Homologues	25				01-JUN-23	24-JUN-23	R5958116
Total-PeCDF	8090		0.98	pg/g	01-JUN-23	11-JUN-23	R5958116
Total PeCDF # Homologues	21				01-JUN-23	11-JUN-23	R5958116

* 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
L2750776-3 BAGHOUSE DUST 1							
Sampled By: Client on 13-APR-23 @ 12:00							
Matrix: Solid							
Dioxins and Furans HR 1613B							
Total-HxCDF	4920		1.6	pg/g	01-JUN-23	11-JUN-23	R5958116
Total HxCDF # Homologues	12				01-JUN-23	11-JUN-23	R5958116
Total-HpCDF	2100		1.1	pg/g	01-JUN-23	11-JUN-23	R5958116
Total HpCDF # Homologues	4				01-JUN-23	11-JUN-23	R5958116
Surrogate: 13C12-2,3,7,8-TCDD	79.0		25-164	%	01-JUN-23	11-JUN-23	R5958116
Surrogate: 13C12-1,2,3,7,8-PeCDD	71.0		25-181	%	01-JUN-23	11-JUN-23	R5958116
Surrogate: 13C12-1,2,3,4,7,8-HxCDD	84.0		32-141	%	01-JUN-23	11-JUN-23	R5958116
Surrogate: 13C12-1,2,3,6,7,8-HxCDD	77.0		28-130	%	01-JUN-23	11-JUN-23	R5958116
Surrogate: 13C12-1,2,3,4,6,7,8-HpCDD	62.0		23-140	%	01-JUN-23	11-JUN-23	R5958116
Surrogate: 13C12-OCDD	36.0		17-157	%	01-JUN-23	11-JUN-23	R5958116
Surrogate: 13C12-2,3,7,8-TCDF	86.0		24-169	%	01-JUN-23	24-JUN-23	R5958116
Surrogate: 13C12-1,2,3,7,8-PeCDF	90.0		24-185	%	01-JUN-23	11-JUN-23	R5958116
Surrogate: 13C12-2,3,4,7,8-PeCDF	85.0		21-178	%	01-JUN-23	11-JUN-23	R5958116
Surrogate: 13C12-1,2,3,4,7,8-HxCDF	102.0		26-152	%	01-JUN-23	11-JUN-23	R5958116
Surrogate: 13C12-1,2,3,6,7,8-HxCDF	101.0		26-123	%	01-JUN-23	11-JUN-23	R5958116
Surrogate: 13C12-2,3,4,6,7,8-HxCDF	92.0		29-147	%	01-JUN-23	11-JUN-23	R5958116
Surrogate: 13C12-1,2,3,7,8,9-HxCDF	92.0		28-136	%	01-JUN-23	11-JUN-23	R5958116
Surrogate: 13C12-1,2,3,4,6,7,8-HpCDF	72.0		28-143	%	01-JUN-23	11-JUN-23	R5958116
Surrogate: 13C12-1,2,3,4,7,8,9-HpCDF	69.0		26-138	%	01-JUN-23	11-JUN-23	R5958116
Surrogate: 37Cl4-2,3,7,8-TCDD (Cleanup)	87.0		31-197	%	01-JUN-23	11-JUN-23	R5958116
Lower Bound PCDD/F TEQ (WHO 2005)	738		0	pg/g	01-JUN-23	11-JUN-23	R5958116
Mid Point PCDD/F TEQ (WHO 2005)	738		0	pg/g	01-JUN-23	11-JUN-23	R5958116
Upper Bound PCDD/F TEQ (WHO 2005)	738		0	pg/g	01-JUN-23	11-JUN-23	R5958116
L2750776-4 BAGHOUSE DUST 2							
Sampled By: Client on 13-APR-23 @ 12:45							
Matrix: Solid							
Miscellaneous Parameters							
% Moisture	2.01		0.10	%	01-JUN-23	02-JUN-23	R5954899
All PCB congeners by GC/HRMS							
PCB 1	157		0.84	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 2	386		0.68	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 3	467		0.58	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 4	417		1.8	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 10	23.1		1.0	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 9	145		1.1	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 7	108		1.1	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 6	459		1.1	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 5	54.3	M	1.2	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 8	1790	M	0.97	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 14	26.5		1.1	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 11	580		1.1	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 13/12	608		1.0	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 15	1580		1.1	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 19	205		0.85	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 30/18	2610		0.93	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 17	1250		1.1	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 27	211		0.81	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 24	50.7		0.89	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 16	1280		1.3	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 32	835		0.74	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 34	27.9		1.4	pg/g	01-JUN-23	09-JUN-23	R5958116

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2750776-4 BAGHOUSE DUST 2							
Sampled By: Client on 13-APR-23 @ 12:45							
Matrix: Solid							
All PCB congeners by GC/HRMS							
PCB 23	14.7	M	1.4	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 29/26	1030		1.3	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 25	485		1.3	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 31	4560		1.2	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 28/20	5390		1.3	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 21/33	3570		1.3	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 22	2340		1.4	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 36	21.2	M	1.2	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 39	54.2		1.4	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 38	81.3		1.4	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 35	389		1.3	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 37	2890		1.5	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 54	8.01	[J]	0.31	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 50/53	592		1.3	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 45/51	733		1.3	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 46	294		1.5	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 52	4560		1.3	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 73	<0.91	[U]	0.91	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 43	227		1.6	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 69/49	2350		1.1	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 48	1180		1.3	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 44/47/65	4270		1.2	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 59/62/75	464		0.95	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 42	1390		1.4	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 41/71/40	3020		1.3	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 64	1930		0.93	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 72	35.1	M	1.3	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 68	29.9		1.3	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 57	44.9		1.4	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 58	102		1.4	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 67	230		1.2	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 63	174		1.3	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 61/70/74/76	7390		1.4	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 66	3370		1.3	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 55	195		1.4	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 56	2020		1.4	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 60	1130		1.4	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 80	<1.1	[U]	1.1	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 79	80.0		1.2	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 78	48.0	M,R	1.5	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 81	71.7		1.9	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 77	950		2.1	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 104	<0.71	[U]	0.71	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 96	41.8		1.2	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 103	24.6		1.6	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 94	30.1		1.7	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 95	3280		1.9	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 100/93/102/98	204		1.6	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 88/91	606		1.7	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 84	1070		1.8	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 89	92.2		2.1	pg/g	01-JUN-23	09-JUN-23	R5958116

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2750776-4 BAGHOUSE DUST 2							
Sampled By: Client on 13-APR-23 @ 12:45							
Matrix: Solid							
All PCB congeners by GC/HRMS							
PCB 121	6.4	[J]	1.2	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 92	825		1.9	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 113/90/101	4350		1.4	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 83/99	3370		1.7	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 112	410	M,R	1.2	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 109/119/86/97/125/87	3490	M	1.4	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 117/116/85/110/115	7130	M	1.3	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 82	897	M	2.1	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 111	13.0	M,R	1.2	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 120	22.1		1.1	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 108/124	316		1.8	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 107	462		1.7	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 123	89.0	R	2.4	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 106	<1.9	[U]	1.9	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 118	7410		2.4	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 122	130	R	2.4	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 114	180	R	2.5	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 105	3890		2.7	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 127	16.0	R	1.9	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 126	167		3.2	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 155	<1.0	[U]	1.0	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 152	7.7	[J]	2.0	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 150	5.7	[J]	1.9	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 136	438		2.0	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 145	3.6	[J]	2.0	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 148	4.6	[J]	2.7	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 151/135	1240	M	2.8	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 154	24.4	M	2.0	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 144	216		2.7	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 147/149	4980		7.8	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 134/143	456		9.5	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 139/140	166		7.8	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 131	151		9.6	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 142	<9.7	[U]	9.7	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 132	2870		9.1	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 133	102		9.0	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 165	<6.6	[U]	6.6	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 146	972	M	7.3	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 161	<6.2	M,U	6.2	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 168/153	6230		6.4	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 141	2080	M	8.1	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 130	781		9.4	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 137/164	1500	M	7.1	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 138/163/129	10400	M	8.1	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 160	78.9	M	6.3	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 158	1050	M	5.5	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 128/166	1630		6.9	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 159	59.4		5.4	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 162	49.9		5.7	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 167	379		5.7	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 156/157	1340		8.3	pg/g	01-JUN-23	09-JUN-23	R5958116

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2750776-4 BAGHOUSE DUST 2							
Sampled By: Client on 13-APR-23 @ 12:45							
Matrix: Solid							
All PCB congeners by GC/HRMS							
PCB 169	67.8		6.7	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 188	4.0	J,R	2.7	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 179	393		3.5	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 184	4.1	M,J,R	3.4	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 176	134		3.5	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 186	<3.7	[U]	3.7	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 178	211		5.1	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 175	57.5		4.8	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 187	1400		4.5	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 182	14.0		4.5	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 183	665		4.4	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 185	106	M	4.7	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 174	1120	M	4.5	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 177	531		4.6	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 181	18.9		4.5	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 171/173	312		4.5	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 172	233		4.4	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 192	40.5		3.7	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 180/193	2190		3.5	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 191	133		3.0	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 170	932		4.2	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 190	219		2.9	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 189	88.1		3.6	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 202	194		1.8	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 201	124		1.8	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 204	3.8	[J]	1.9	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 197	31.5		2.0	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 200	113		2.0	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 198/199	1020		2.8	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 196	395		2.6	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 203	618		2.7	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 195	259		4.8	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 194	880		4.5	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 205	141		4.8	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 208	166		2.7	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 207	81.6		2.6	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 206	556		3.8	pg/g	01-JUN-23	09-JUN-23	R5958116
PCB 209	165		1.2	pg/g	01-JUN-23	09-JUN-23	R5958116
Surrogate: 13C12 PCB 1	39.0	R	5-145	%	01-JUN-23	09-JUN-23	R5958116
Surrogate: 13C12 PCB 3	37.0		5-145	%	01-JUN-23	09-JUN-23	R5958116
Surrogate: 13C12 PCB 4	38.0		5-145	%	01-JUN-23	09-JUN-23	R5958116
Surrogate: 13C12 PCB 15	39.0		5-145	%	01-JUN-23	09-JUN-23	R5958116
Surrogate: 13C12 PCB 19	40.0		5-145	%	01-JUN-23	09-JUN-23	R5958116
Surrogate: 13C12 PCB 37	40.0		5-145	%	01-JUN-23	09-JUN-23	R5958116
Surrogate: 13C12 PCB 54	50.0		5-145	%	01-JUN-23	09-JUN-23	R5958116
Surrogate: 13C12 PCB 81	51.0		10-145	%	01-JUN-23	09-JUN-23	R5958116
Surrogate: 13C12 PCB 77	48.0		10-145	%	01-JUN-23	09-JUN-23	R5958116
Surrogate: 13C12 PCB 104	65.0		10-145	%	01-JUN-23	09-JUN-23	R5958116
Surrogate: 13C12 PCB 123	48.0		10-145	%	01-JUN-23	09-JUN-23	R5958116
Surrogate: 13C12 PCB 118	49.0		10-145	%	01-JUN-23	09-JUN-23	R5958116
Surrogate: 13C12 PCB 114	50.0	R	10-145	%	01-JUN-23	09-JUN-23	R5958116

* 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
L2750776-4 BAGHOUSE DUST 2							
Sampled By: Client on 13-APR-23 @ 12:45							
Matrix: Solid							
All PCB congeners by GC/HRMS							
Surrogate: 13C12 PCB 105	44.0		10-145	%	01-JUN-23	09-JUN-23	R5958116
Surrogate: 13C12 PCB 126	41.0		10-145	%	01-JUN-23	09-JUN-23	R5958116
Surrogate: 13C12 PCB 155	42.0		10-145	%	01-JUN-23	09-JUN-23	R5958116
Surrogate: 13C12 PCB 167	40.0		10-145	%	01-JUN-23	09-JUN-23	R5958116
Surrogate: 13C12 PCB 156/157	36.0		10-145	%	01-JUN-23	09-JUN-23	R5958116
Surrogate: 13C12 PCB 169	37.0		10-145	%	01-JUN-23	09-JUN-23	R5958116
Surrogate: 13C12 PCB 188	42.0		10-145	%	01-JUN-23	09-JUN-23	R5958116
Surrogate: 13C12 PCB 189	56.0		10-145	%	01-JUN-23	09-JUN-23	R5958116
Surrogate: 13C12 PCB 202	34.0		10-145	%	01-JUN-23	09-JUN-23	R5958116
Surrogate: 13C12 PCB 205	39.0		10-145	%	01-JUN-23	09-JUN-23	R5958116
Surrogate: 13C12 PCB 208	33.0	R	10-145	%	01-JUN-23	09-JUN-23	R5958116
Surrogate: 13C12 PCB 206	41.0		10-145	%	01-JUN-23	09-JUN-23	R5958116
Surrogate: 13C12 PCB 209	63.0		10-145	%	01-JUN-23	09-JUN-23	R5958116
Surrogate: 13C12 PCB 28	55.0		5-145	%	01-JUN-23	09-JUN-23	R5958116
Surrogate: 13C12 PCB 111	39.0		10-145	%	01-JUN-23	09-JUN-23	R5958116
Surrogate: 13C12 PCB 178	37.0		10-145	%	01-JUN-23	09-JUN-23	R5958116
Total MonoCB	1010	[J]	0.58	pg/g	01-JUN-23	09-JUN-23	R5958116
Total DiCB	5790	[J]	0.97	pg/g	01-JUN-23	09-JUN-23	R5958116
Total TriCB	27300	[J]	0.74	pg/g	01-JUN-23	09-JUN-23	R5958116
Total TetraCB	36900	[J]	0.31	pg/g	01-JUN-23	09-JUN-23	R5958116
Total PentaCB	38500	[J]	0.71	pg/g	01-JUN-23	09-JUN-23	R5958116
Total HexaCB	37300	[J]	1.0	pg/g	01-JUN-23	09-JUN-23	R5958116
Total HeptaCB	8810	[J]	2.7	pg/g	01-JUN-23	09-JUN-23	R5958116
Total OctaCB	3780	[J]	1.8	pg/g	01-JUN-23	09-JUN-23	R5958116
Total NonaCB	804	[J]	2.6	pg/g	01-JUN-23	09-JUN-23	R5958116
DecaCB	165	[J]	1.2	pg/g	01-JUN-23	09-JUN-23	R5958116
Total PCB	160000	[J]	1.0	pg/g	01-JUN-23	09-JUN-23	R5958116
Lower Bound PCB TEQ (WHO 2005)	19.2			pg/g	01-JUN-23	09-JUN-23	R5958116
Mid Point PCB TEQ (WHO 2005)	19.3			pg/g	01-JUN-23	09-JUN-23	R5958116
Upper Bound PCB TEQ (WHO 2005)	19.3			pg/g	01-JUN-23	09-JUN-23	R5958116
Dioxins and Furans HR 1613B							
2,3,7,8-TCDD	10.1		0.91	pg/g	01-JUN-23	11-JUN-23	R5958116
1,2,3,7,8-PeCDD	29.9		0.56	pg/g	01-JUN-23	11-JUN-23	R5958116
1,2,3,4,7,8-HxCDD	18.9		1.3	pg/g	01-JUN-23	11-JUN-23	R5958116
1,2,3,6,7,8-HxCDD	38.2	M	1.3	pg/g	01-JUN-23	11-JUN-23	R5958116
1,2,3,7,8,9-HxCDD	30.2		1.3	pg/g	01-JUN-23	11-JUN-23	R5958116
1,2,3,4,6,7,8-HpCDD	189		1.6	pg/g	01-JUN-23	11-JUN-23	R5958116
OCDD	499		1.7	pg/g	01-JUN-23	11-JUN-23	R5958116
2,3,7,8-TCDF	230		0.87	pg/g	01-JUN-23	24-JUN-23	R5958116
1,2,3,7,8-PeCDF	150		0.78	pg/g	01-JUN-23	11-JUN-23	R5958116
2,3,4,7,8-PeCDF	271		0.78	pg/g	01-JUN-23	11-JUN-23	R5958116
1,2,3,4,7,8-HxCDF	143		0.91	pg/g	01-JUN-23	11-JUN-23	R5958116
1,2,3,6,7,8-HxCDF	144		0.97	pg/g	01-JUN-23	11-JUN-23	R5958116
2,3,4,6,7,8-HxCDF	159		0.95	pg/g	01-JUN-23	11-JUN-23	R5958116
1,2,3,7,8,9-HxCDF	66.1		1.3	pg/g	01-JUN-23	11-JUN-23	R5958116
1,2,3,4,6,7,8-HpCDF	337		1.1	pg/g	01-JUN-23	11-JUN-23	R5958116
1,2,3,4,7,8,9-HpCDF	62.7		1.3	pg/g	01-JUN-23	11-JUN-23	R5958116
OCDF	227		7.8	pg/g	01-JUN-23	11-JUN-23	R5958116
Total-TCDD	372		0.91	pg/g	01-JUN-23	11-JUN-23	R5958116
Total TCDD # Homologues	15				01-JUN-23	11-JUN-23	R5958116
Total-PeCDD	435		0.56	pg/g	01-JUN-23	11-JUN-23	R5958116

* 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
L2750776-4 BAGHOUSE DUST 2							
Sampled By: Client on 13-APR-23 @ 12:45							
Matrix: Solid							
Dioxins and Furans HR 1613B							
Total PeCDD # Homologues	8				01-JUN-23	11-JUN-23	R5958116
Total-HxCDD	430		1.3	pg/g	01-JUN-23	11-JUN-23	R5958116
Total HxCDD # Homologues	8				01-JUN-23	11-JUN-23	R5958116
Total-HpCDD	367		1.6	pg/g	01-JUN-23	11-JUN-23	R5958116
Total HpCDD # Homologues	2				01-JUN-23	11-JUN-23	R5958116
Total-TCDF	5460		0.87	pg/g	01-JUN-23	24-JUN-23	R5958116
Total TCDF # Homologues	26				01-JUN-23	24-JUN-23	R5958116
Total-PeCDF	2940		0.78	pg/g	01-JUN-23	11-JUN-23	R5958116
Total PeCDF # Homologues	18				01-JUN-23	11-JUN-23	R5958116
Total-HxCDF	1320		1.3	pg/g	01-JUN-23	11-JUN-23	R5958116
Total HxCDF # Homologues	12				01-JUN-23	11-JUN-23	R5958116
Total-HpCDF	571		1.3	pg/g	01-JUN-23	11-JUN-23	R5958116
Total HpCDF # Homologues	4				01-JUN-23	11-JUN-23	R5958116
Surrogate: 13C12-2,3,7,8-TCDD	25.0		25-164	%	01-JUN-23	11-JUN-23	R5958116
Surrogate: 13C12-1,2,3,7,8-PeCDD	27.0		25-181	%	01-JUN-23	11-JUN-23	R5958116
Surrogate: 13C12-1,2,3,4,7,8-HxCDD	24.0	G	32-141	%	01-JUN-23	11-JUN-23	R5958116
Surrogate: 13C12-1,2,3,6,7,8-HxCDD	21.0	G	28-130	%	01-JUN-23	11-JUN-23	R5958116
Surrogate: 13C12-1,2,3,4,6,7,8-HpCDD	21.0	G	23-140	%	01-JUN-23	11-JUN-23	R5958116
Surrogate: 13C12-OCDD	15.0	G	17-157	%	01-JUN-23	11-JUN-23	R5958116
Surrogate: 13C12-2,3,7,8-TCDF	23.0	G	24-169	%	01-JUN-23	24-JUN-23	R5958116
Surrogate: 13C12-1,2,3,7,8-PeCDF	29.0		24-185	%	01-JUN-23	11-JUN-23	R5958116
Surrogate: 13C12-2,3,4,7,8-PeCDF	29.0		21-178	%	01-JUN-23	11-JUN-23	R5958116
Surrogate: 13C12-1,2,3,4,7,8-HxCDF	26.0		26-152	%	01-JUN-23	11-JUN-23	R5958116
Surrogate: 13C12-1,2,3,6,7,8-HxCDF	22.0	G	26-123	%	01-JUN-23	11-JUN-23	R5958116
Surrogate: 13C12-2,3,4,6,7,8-HxCDF	25.0	G	29-147	%	01-JUN-23	11-JUN-23	R5958116
Surrogate: 13C12-1,2,3,7,8,9-HxCDF	25.0	G	28-136	%	01-JUN-23	11-JUN-23	R5958116
Surrogate: 13C12-1,2,3,4,6,7,8-HpCDF	23.0	R	28-143	%	01-JUN-23	11-JUN-23	R5958116
Surrogate: 13C12-1,2,3,4,7,8,9-HpCDF	23.0	G	26-138	%	01-JUN-23	11-JUN-23	R5958116
Surrogate: 37Cl4-2,3,7,8-TCDD (Cleanup)	43.0		31-197	%	01-JUN-23	11-JUN-23	R5958116
Lower Bound PCDD/F TEQ (WHO 2005)	215		0	pg/g	01-JUN-23	11-JUN-23	R5958116
Mid Point PCDD/F TEQ (WHO 2005)	215		0	pg/g	01-JUN-23	11-JUN-23	R5958116
Upper Bound PCDD/F TEQ (WHO 2005)	215		0	pg/g	01-JUN-23	11-JUN-23	R5958116

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

Reference Information

Sample Parameter Qualifier Key:

Qualifier	Description
A	Method Blank exceeds ALS DQO. Refer to narrative comments for further information.
G	QC result did not meet ALS DQO. Refer to narrative comments for further information.
J,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.
[J]	The analyte was detected below the calibrated range but above the EDL.
[U]	The analyte was not detected above the EDL.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
DX-1613B-HRMS-BU	Solid	Dioxins and Furans HR 1613B	USEPA 1613B
Samples are extracted by Soxhlet. The extracts are prepared using column chromatography, reduced in volume and analyzed by isotope-dilution GC/HRMS.			
MOISTURE-BU	Soil	% Moisture	CCME PHC in Soil - Tier 1 (mod)
This method is used to determine the percent moisture in a sample. Samples are homogenized, moisture is removed by heating at 105°C until constant mass is achieved. The residues are measured gravimetrically and the difference in weight between the wet sample and the dried sample is used to determine the moisture content. This percent moisture can be used, in conjunction with analytical results, to report data on a dry weight basis.			
PCB-1668C-O2-HRMS-BU	Solid	All PCB congeners by GC/HRMS	USEPA 1668C
Samples are extracted by Soxhlet and the targets are isolated via multiple cleanup steps then analyzed by gas chromatography/high-resolution mass spectrometry using an SPB-Octyl column by isotope dilution			

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

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

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

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

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

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

mg/kg 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

Workorder: L2750776

Report Date: 27-JUN-23

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Client: ALS Environmental - Kelso
 1317 South 13th Avenue
 Kelso WA 98626

Contact: Mark Harris

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MOISTURE-BU		Soil						
Batch	R5954899							
WG3784662-3	DUP	L2750776-1						
% Moisture		0.27	0.26		%	4.0	20	02-JUN-23
WG3784662-2	LCS							
% Moisture			99.8		%		90-110	02-JUN-23
WG3784662-1	MB							
% Moisture			<0.10		%		0.3	02-JUN-23
DX-1613B-HRMS-BU		Solid						
Batch	R5958116							
WG3784661-4	DUP	L2750776-1						
2,3,7,8-TCDD		17.7	17.7		pg/g	0.0	50	11-JUN-23
1,2,3,7,8-PeCDD		112	114		pg/g	1.8	50	11-JUN-23
1,2,3,4,7,8-HxCDD		76.8	82.0		pg/g	6.5	50	11-JUN-23
1,2,3,6,7,8-HxCDD		240	231		pg/g	3.8	50	11-JUN-23
1,2,3,7,8,9-HxCDD		189	204		pg/g	7.6	50	11-JUN-23
1,2,3,4,6,7,8-HpCDD		776	780		pg/g	0.5	50	11-JUN-23
OCDD		436	426		pg/g	2.3	50	11-JUN-23
2,3,7,8-TCDF		173	173		pg/g	0.0	50	24-JUN-23
1,2,3,7,8-PeCDF		338	337		pg/g	0.3	50	11-JUN-23
2,3,4,7,8-PeCDF		485	492		pg/g	1.4	50	11-JUN-23
1,2,3,4,7,8-HxCDF		332	346		pg/g	4.1	50	11-JUN-23
1,2,3,6,7,8-HxCDF		422	430		pg/g	1.9	50	11-JUN-23
2,3,4,6,7,8-HxCDF		401	418		pg/g	4.2	50	11-JUN-23
1,2,3,7,8,9-HxCDF		162	169		pg/g	4.2	50	11-JUN-23
1,2,3,4,6,7,8-HpCDF		761	785		pg/g	3.1	50	11-JUN-23
1,2,3,4,7,8,9-HpCDF		183	184		pg/g	0.5	50	11-JUN-23
OCDF		368	388		pg/g	5.3	50	11-JUN-23
Total-TCDD		1370	1330		pg/g	3.0	50	11-JUN-23
Total-PeCDD		2950	2880		pg/g	2.4	50	11-JUN-23
Total-HxCDD		2960	3010		pg/g	1.7	50	11-JUN-23
Total-HpCDD		1600	1590		pg/g	0.6	50	11-JUN-23
Total-TCDF		6540	6540		pg/g	0.0	50	24-JUN-23
Total-PeCDF		5610	5640		pg/g	0.5	50	11-JUN-23
Total-HxCDF		3570	3610		pg/g	1.1	50	11-JUN-23
Total-HpCDF		1380	1440		pg/g	4.3	50	11-JUN-23
WG3784661-2	LCS							
2,3,7,8-TCDD			94.0		%		67-158	11-JUN-23

Quality Control Report

Workorder: L2750776

Report Date: 27-JUN-23

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
DX-1613B-HRMS-BU		Solid						
Batch	R5958116							
WG3784661-2 LCS								
1,2,3,7,8-PeCDD			108.0		%		70-142	11-JUN-23
1,2,3,4,7,8-HxCDD			103.0		%		70-164	11-JUN-23
1,2,3,6,7,8-HxCDD			101.0		%		76-134	11-JUN-23
1,2,3,7,8,9-HxCDD			100.0		%		64-162	11-JUN-23
1,2,3,4,6,7,8-HpCDD			102.0		%		70-140	11-JUN-23
OCDD			96.0		%		78-144	11-JUN-23
2,3,7,8-TCDF			105.0		%		75-158	11-JUN-23
1,2,3,7,8-PeCDF			106.0		%		80-134	11-JUN-23
2,3,4,7,8-PeCDF			97.0		%		68-160	11-JUN-23
1,2,3,4,7,8-HxCDF			100.0		%		72-134	11-JUN-23
1,2,3,6,7,8-HxCDF			106.0		%		84-130	11-JUN-23
2,3,4,6,7,8-HxCDF			97.0		%		70-156	11-JUN-23
1,2,3,7,8,9-HxCDF			100.0		%		78-130	11-JUN-23
1,2,3,4,6,7,8-HpCDF			104.0		%		82-122	11-JUN-23
1,2,3,4,7,8,9-HpCDF			96.0		%		78-138	11-JUN-23
OCDF			108.0		%		63-170	11-JUN-23
WG3784661-1 MB								
2,3,7,8-TCDD			<0.033	[U]	pg/g		0.5	11-JUN-23
1,2,3,7,8-PeCDD			<0.044	[U]	pg/g		2.5	11-JUN-23
1,2,3,4,7,8-HxCDD			<0.051	[U]	pg/g		2.5	11-JUN-23
1,2,3,6,7,8-HxCDD			<0.053	[U]	pg/g		2.5	11-JUN-23
1,2,3,7,8,9-HxCDD			<0.052	[U]	pg/g		2.5	11-JUN-23
1,2,3,4,6,7,8-HpCDD			0.071	M,J,R	pg/g		2.5	11-JUN-23
OCDD			0.280	J,R	pg/g		5	11-JUN-23
2,3,7,8-TCDF			<0.058	[U]	pg/g		0.5	24-JUN-23
1,2,3,7,8-PeCDF			<0.033	[U]	pg/g		2.5	11-JUN-23
2,3,4,7,8-PeCDF			<0.026	[U]	pg/g		2.5	11-JUN-23
1,2,3,4,7,8-HxCDF			<0.022	[U]	pg/g		2.5	11-JUN-23
1,2,3,6,7,8-HxCDF			<0.023	[U]	pg/g		2.5	11-JUN-23
2,3,4,6,7,8-HxCDF			<0.023	[U]	pg/g		2.5	11-JUN-23
1,2,3,7,8,9-HxCDF			<0.030	[U]	pg/g		2.5	11-JUN-23
1,2,3,4,6,7,8-HpCDF			<0.030	[U]	pg/g		2.5	11-JUN-23
1,2,3,4,7,8,9-HpCDF			<0.040	[U]	pg/g		2.5	11-JUN-23
OCDF			0.15	M,J	pg/g		5	11-JUN-23

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
DX-1613B-HRMS-BU								
	Solid							
Batch	R5958116							
WG3784661-1	MB							
Total-TCDD			<0.033	[U]	pg/g		0.033	11-JUN-23
Total-PeCDD			<0.044	[U]	pg/g		0.044	11-JUN-23
Total-HxCDD			<0.053	[U]	pg/g		0.053	11-JUN-23
Total-HpCDD			<0.045	[U]	pg/g		0.045	11-JUN-23
Total-TCDF			<0.058	[U]	pg/g		0.058	24-JUN-23
Total-PeCDF			<0.033	[U]	pg/g		0.033	11-JUN-23
Total-HxCDF			<0.030	[U]	pg/g		0.03	11-JUN-23
Total-HpCDF			<0.040	[U]	pg/g		0.04	11-JUN-23
Surrogate: 13C12-2,3,7,8-TCDD			93.0		%		25-164	11-JUN-23
Surrogate: 13C12-1,2,3,7,8-PeCDD			94.0		%		25-181	11-JUN-23
Surrogate: 13C12-1,2,3,4,7,8-HxCDD			101.0		%		32-141	11-JUN-23
Surrogate: 13C12-1,2,3,6,7,8-HxCDD			96.0		%		28-130	11-JUN-23
Surrogate: 13C12-1,2,3,4,6,7,8-HpCDD			86.0		%		23-140	11-JUN-23
Surrogate: 13C12-OCDD			58.0		%		17-157	11-JUN-23
Surrogate: 13C12-2,3,7,8-TCDF			96.0		%		24-169	24-JUN-23
Surrogate: 13C12-1,2,3,7,8-PeCDF			94.0		%		24-185	11-JUN-23
Surrogate: 13C12-2,3,4,7,8-PeCDF			108.0		%		21-178	11-JUN-23
Surrogate: 13C12-1,2,3,4,7,8-HxCDF			105.0		%		26-152	11-JUN-23
Surrogate: 13C12-1,2,3,6,7,8-HxCDF			104.0		%		26-123	11-JUN-23
Surrogate: 13C12-2,3,4,6,7,8-HxCDF			108.0		%		29-147	11-JUN-23
Surrogate: 13C12-1,2,3,7,8,9-HxCDF			108.0		%		28-136	11-JUN-23
Surrogate: 13C12-1,2,3,4,6,7,8-HpCDF			90.0		%		28-143	11-JUN-23
Surrogate: 13C12-1,2,3,4,7,8,9-HpCDF			95.0		%		26-138	11-JUN-23
Surrogate: 37Cl4-2,3,7,8-TCDD (Cleanup)			106.0		%		31-197	11-JUN-23
PCB-1668C-O2-HRMS-BU								
	Solid							
Batch	R5958116							
WG3784661-2	LCS							
PCB 1			116.0		%		60-135	13-JUN-23
PCB 3			101.0		%		60-135	13-JUN-23
PCB 4			105.0		%		60-135	13-JUN-23
PCB 15			109.0		%		60-135	13-JUN-23
PCB 19			104.0		%		60-135	13-JUN-23
PCB 37			103.0		%		60-135	13-JUN-23
PCB 54			101.0		%		60-135	13-JUN-23

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PCB-1668C-O2-HRMS-BU Solid								
Batch	R5958116							
WG3784661-2	LCS							
PCB 81			104.0		%		60-135	13-JUN-23
PCB 77			106.0		%		60-135	13-JUN-23
PCB 104			86.0		%		60-135	13-JUN-23
PCB 123			108.0		%		60-135	13-JUN-23
PCB 118			109.0		%		60-135	13-JUN-23
PCB 114			109.0		%		60-135	13-JUN-23
PCB 105			102.0		%		60-135	13-JUN-23
PCB 126			106.0		%		60-135	13-JUN-23
PCB 155			95.0		%		60-135	13-JUN-23
PCB 167			97.0		%		60-135	13-JUN-23
PCB 156/157			96.0		%		60-135	13-JUN-23
PCB 169			94.0		%		60-135	13-JUN-23
PCB 188			87.0		%		60-135	13-JUN-23
PCB 189			92.0		%		60-135	13-JUN-23
PCB 202			94.0		%		60-135	13-JUN-23
PCB 205			97.0		%		60-135	13-JUN-23
PCB 208			91.0		%		60-135	13-JUN-23
PCB 206			91.0		%		60-135	13-JUN-23
PCB 209			107.0		%		60-135	13-JUN-23
WG3784661-1	MB							
PCB 1			<0.089	[U]	pg/g		1.25	13-JUN-23
PCB 2			<0.074	[U]	pg/g		1.25	13-JUN-23
PCB 3			0.130	M,J,R	pg/g		1.25	13-JUN-23
PCB 4			<0.34	[U]	pg/g		1.25	13-JUN-23
PCB 10			<0.10	[U]	pg/g		1.25	13-JUN-23
PCB 9			<0.11	[U]	pg/g		1.25	13-JUN-23
PCB 7			<0.11	[U]	pg/g		1.25	13-JUN-23
PCB 6			<0.11	M,J,R	pg/g		1.25	13-JUN-23
PCB 5			<0.12	[U]	pg/g		1.25	13-JUN-23
PCB 8			0.360	M,J,R	pg/g		1.25	13-JUN-23
PCB 14			<0.20	[U]	pg/g		1.25	13-JUN-23
PCB 11			2.23	A	pg/g		1.25	13-JUN-23
PCB 13/12			<0.20	[U]	pg/g		1.25	13-JUN-23
PCB 15			<0.14	[U]	pg/g		1.25	13-JUN-23



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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PCB-1668C-O2-HRMS-BU Solid								
Batch R5958116								
WG3784661-1 MB								
PCB 19			<0.076	[U]	pg/g		1.25	13-JUN-23
PCB 30/18			0.250	M,J,R	pg/g		1.25	13-JUN-23
PCB 17			0.159	M,J	pg/g		1.25	13-JUN-23
PCB 27			<0.065	[U]	pg/g		1.25	13-JUN-23
PCB 24			<0.071	[U]	pg/g		1.25	13-JUN-23
PCB 16			0.143	[J]	pg/g		1.25	13-JUN-23
PCB 32			0.062	M,J,R	pg/g		1.25	13-JUN-23
PCB 34			<0.054	[U]	pg/g		1.25	13-JUN-23
PCB 23			<0.054	[U]	pg/g		1.25	13-JUN-23
PCB 29/26			<0.050	M,U	pg/g		1.25	13-JUN-23
PCB 25			<0.049	[U]	pg/g		1.25	13-JUN-23
PCB 31			0.386	[J]	pg/g		1.25	13-JUN-23
PCB 28/20			0.449	[J]	pg/g		1.25	13-JUN-23
PCB 21/33			0.261	[J]	pg/g		1.25	13-JUN-23
PCB 22			0.130	J,R	pg/g		1.25	13-JUN-23
PCB 36			<0.047	[U]	pg/g		1.25	13-JUN-23
PCB 39			<0.056	[U]	pg/g		1.25	13-JUN-23
PCB 38			<0.054	[U]	pg/g		1.25	13-JUN-23
PCB 35			<0.054	[U]	pg/g		1.25	13-JUN-23
PCB 37			0.130	M,J,R	pg/g		1.25	13-JUN-23
PCB 54			<0.034	[U]	pg/g		1.25	13-JUN-23
PCB 50/53			<0.073	[U]	pg/g		1.25	13-JUN-23
PCB 45/51			0.270	M,J,R	pg/g		1.25	13-JUN-23
PCB 46			<0.080	[U]	pg/g		1.25	13-JUN-23
PCB 52			0.402	[J]	pg/g		1.25	13-JUN-23
PCB 73			<0.051	[U]	pg/g		1.25	13-JUN-23
PCB 43			<0.090	[U]	pg/g		1.25	13-JUN-23
PCB 69/49			0.175	M,J	pg/g		1.25	13-JUN-23
PCB 48			<0.074	[U]	pg/g		1.25	13-JUN-23
PCB 44/47/65			1.07	[J]	pg/g		1.25	13-JUN-23
PCB 59/62/75			<0.053	[U]	pg/g		1.25	13-JUN-23
PCB 42			<0.080	[U]	pg/g		1.25	13-JUN-23
PCB 41/71/40			0.228	M,J	pg/g		1.25	13-JUN-23

COMMENTS: PCB-11 was detected in the blank that was within the reference method control limit. The recovery of 13C12-PCB-209 was above the

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PCB-1668C-O2-HRMS-BU Solid								
Batch R5958116								
WG3784661-1 MB								
PCB 64			<0.052	[U]	pg/g		1.25	13-JUN-23
PCB 72			<0.043	[U]	pg/g		1.25	13-JUN-23
PCB 68			0.101	[J]	pg/g		1.25	13-JUN-23
PCB 57			<0.046	[U]	pg/g		1.25	13-JUN-23
PCB 58			<0.046	[U]	pg/g		1.25	13-JUN-23
PCB 67			<0.039	[U]	pg/g		1.25	13-JUN-23
PCB 63			<0.043	[U]	pg/g		1.25	13-JUN-23
PCB 61/70/74/76			0.335	[J]	pg/g		1.25	13-JUN-23
PCB 66			0.102	[J]	pg/g		1.25	13-JUN-23
PCB 55			<0.047	[U]	pg/g		1.25	13-JUN-23
PCB 56			0.097	J,R	pg/g		1.25	13-JUN-23
PCB 60			<0.045	M,U	pg/g		1.25	13-JUN-23
PCB 80			<0.038	[U]	pg/g		1.25	13-JUN-23
PCB 79			<0.041	[U]	pg/g		1.25	13-JUN-23
PCB 78			<0.050	[U]	pg/g		1.25	13-JUN-23
PCB 81			<0.057	[U]	pg/g		1.25	13-JUN-23
PCB 77			<0.058	[U]	pg/g		1.25	13-JUN-23
PCB 104			<0.057	[U]	pg/g		1.25	13-JUN-23
PCB 96			<0.086	[U]	pg/g		1.25	13-JUN-23
PCB 103			<0.053	[U]	pg/g		1.25	13-JUN-23
PCB 94			<0.057	[U]	pg/g		1.25	13-JUN-23
PCB 95			0.202	[J]	pg/g		1.25	13-JUN-23
PCB 100/93/102/98			<0.053	[U]	pg/g		1.25	13-JUN-23
PCB 88/91			<0.057	[U]	pg/g		1.25	13-JUN-23
PCB 84			<0.059	[U]	pg/g		1.25	13-JUN-23
PCB 89			<0.067	[U]	pg/g		1.25	13-JUN-23
PCB 121			<0.039	[U]	pg/g		1.25	13-JUN-23
PCB 92			<0.062	[U]	pg/g		1.25	13-JUN-23
PCB 113/90/101			0.190	J,R	pg/g		1.25	13-JUN-23
PCB 83/99			<0.058	[U]	pg/g		1.25	13-JUN-23
PCB 112			<0.038	[U]	pg/g		1.25	13-JUN-23
PCB 109/119/86/97/125/87			0.084	J,R	pg/g		1.25	13-JUN-23
PCB 117/116/85/110/115			0.259	[J]	pg/g		1.25	13-JUN-23

COMMENTS: PCB-11 was detected in the blank that was within the reference method control limit. The recovery of 13C12-PCB-209 was above the



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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PCB-1668C-O2-HRMS-BU Solid								
Batch R5958116								
WG3784661-1 MB								
PCB 82			<0.069	[U]	pg/g		1.25	13-JUN-23
PCB 111			<0.039	[U]	pg/g		1.25	13-JUN-23
PCB 120			<0.038	[U]	pg/g		1.25	13-JUN-23
PCB 108/124			<0.049	[U]	pg/g		1.25	13-JUN-23
PCB 107			<0.041	[U]	pg/g		1.25	13-JUN-23
PCB 123			<0.063	[U]	pg/g		1.25	13-JUN-23
PCB 106			<0.053	[U]	pg/g		1.25	13-JUN-23
PCB 118			0.308	[J]	pg/g		1.25	13-JUN-23
PCB 122			<0.064	[U]	pg/g		1.25	13-JUN-23
PCB 114			<0.058	[U]	pg/g		1.25	13-JUN-23
PCB 105			<0.062	[U]	pg/g		1.25	13-JUN-23
PCB 127			<0.047	[U]	pg/g		1.25	13-JUN-23
PCB 126			<0.066	[U]	pg/g		1.25	13-JUN-23
PCB 155			0.019	[J,R]	pg/g		1.25	13-JUN-23
PCB 152			<0.031	[U]	pg/g		1.25	13-JUN-23
PCB 150			<0.028	[U]	pg/g		1.25	13-JUN-23
PCB 136			<0.030	[U]	pg/g		1.25	13-JUN-23
PCB 145			<0.030	[U]	pg/g		1.25	13-JUN-23
PCB 148			<0.041	[U]	pg/g		1.25	13-JUN-23
PCB 151/135			<0.041	[U]	pg/g		1.25	13-JUN-23
PCB 154			<0.033	[U]	pg/g		1.25	13-JUN-23
PCB 144			<0.041	[U]	pg/g		1.25	13-JUN-23
PCB 147/149			0.150	[J]	pg/g		1.25	13-JUN-23
PCB 134/143			<0.044	[U]	pg/g		1.25	13-JUN-23
PCB 139/140			<0.036	[U]	pg/g		1.25	13-JUN-23
PCB 131			<0.045	[U]	pg/g		1.25	13-JUN-23
PCB 142			<0.044	[U]	pg/g		1.25	13-JUN-23
PCB 132			<0.042	[U]	pg/g		1.25	13-JUN-23
PCB 133			<0.042	[U]	pg/g		1.25	13-JUN-23
PCB 165			<0.031	[U]	pg/g		1.25	13-JUN-23
PCB 146			<0.032	[U]	pg/g		1.25	13-JUN-23
PCB 161			<0.029	[U]	pg/g		1.25	13-JUN-23
PCB 168/153			0.150	[M,J,R]	pg/g		1.25	13-JUN-23

COMMENTS: PCB-11 was detected in the blank that was within the reference method control limit. The recovery of 13C12-PCB-209 was above the



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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PCB-1668C-O2-HRMS-BU Solid								
Batch R5958116								
WG3784661-1 MB								
PCB 141			<0.036	[U]	pg/g		1.25	13-JUN-23
PCB 130			<0.041	[U]	pg/g		1.25	13-JUN-23
PCB 137/164			<0.031	[U]	pg/g		1.25	13-JUN-23
PCB 138/163/129			0.233	[J]	pg/g		1.25	13-JUN-23
PCB 160			<0.027	[U]	pg/g		1.25	13-JUN-23
PCB 158			<0.024	[U]	pg/g		1.25	13-JUN-23
PCB 128/166			<0.031	[U]	pg/g		1.25	13-JUN-23
PCB 159			<0.026	[U]	pg/g		1.25	13-JUN-23
PCB 162			<0.028	[U]	pg/g		1.25	13-JUN-23
PCB 167			<0.035	[U]	pg/g		1.25	13-JUN-23
PCB 156/157			<0.058	[U]	pg/g		2.5	13-JUN-23
PCB 169			<0.042	[U]	pg/g		1.25	13-JUN-23
PCB 188			<0.014	[U]	pg/g		1.25	13-JUN-23
PCB 179			<0.023	[U]	pg/g		1.25	13-JUN-23
PCB 184			<0.023	[U]	pg/g		1.25	13-JUN-23
PCB 176			<0.024	[U]	pg/g		1.25	13-JUN-23
PCB 186			<0.024	[U]	pg/g		1.25	13-JUN-23
PCB 178			<0.033	[U]	pg/g		1.25	13-JUN-23
PCB 175			<0.031	[U]	pg/g		1.25	13-JUN-23
PCB 187			<0.030	[U]	pg/g		1.25	13-JUN-23
PCB 182			<0.030	[U]	pg/g		1.25	13-JUN-23
PCB 183			<0.028	[U]	pg/g		1.25	13-JUN-23
PCB 185			<0.034	[U]	pg/g		1.25	13-JUN-23
PCB 174			<0.030	[U]	pg/g		1.25	13-JUN-23
PCB 177			<0.032	[U]	pg/g		1.25	13-JUN-23
PCB 181			<0.033	[U]	pg/g		1.25	13-JUN-23
PCB 171/173			<0.033	[U]	pg/g		1.25	13-JUN-23
PCB 172			<0.032	[U]	pg/g		1.25	13-JUN-23
PCB 192			<0.026	[U]	pg/g		1.25	13-JUN-23
PCB 180/193			<0.026	[U]	pg/g		1.25	13-JUN-23
PCB 191			<0.022	[U]	pg/g		1.25	13-JUN-23
PCB 170			<0.031	[U]	pg/g		1.25	13-JUN-23
PCB 190			<0.020	[U]	pg/g		1.25	13-JUN-23

COMMENTS: PCB-11 was detected in the blank that was within the reference method control limit. The recovery of 13C12-PCB-209 was above the

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PCB-1668C-O2-HRMS-BU Solid								
Batch R5958116								
WG3784661-1 MB								
PCB 189			<0.043	[U]	pg/g		1.25	13-JUN-23
PCB 202			<0.013	[U]	pg/g		1.25	13-JUN-23
PCB 201			<0.017	[U]	pg/g		1.25	13-JUN-23
PCB 204			<0.017	[U]	pg/g		1.25	13-JUN-23
PCB 197			<0.018	[U]	pg/g		1.25	13-JUN-23
PCB 200			<0.018	[U]	pg/g		1.25	13-JUN-23
PCB 198/199			<0.024	[U]	pg/g		1.25	13-JUN-23
PCB 196			<0.023	[U]	pg/g		1.25	13-JUN-23
PCB 203			<0.023	[U]	pg/g		1.25	13-JUN-23
PCB 195			<0.024	[U]	pg/g		1.25	13-JUN-23
PCB 194			0.062	J,R	pg/g		1.25	13-JUN-23
PCB 205			<0.034	[U]	pg/g		1.25	13-JUN-23
PCB 208			<0.035	[U]	pg/g		1.25	13-JUN-23
PCB 207			<0.042	[U]	pg/g		1.25	13-JUN-23
PCB 206			<0.084	[U]	pg/g		1.25	13-JUN-23
PCB 209			0.104	[J]	pg/g		1.25	13-JUN-23
Surrogate: 13C12 PCB 1			40.0	M,R	%		5-145	13-JUN-23
Surrogate: 13C12 PCB 3			43.0		%		5-145	13-JUN-23
Surrogate: 13C12 PCB 4			39.0		%		5-145	13-JUN-23
Surrogate: 13C12 PCB 15			52.0		%		5-145	13-JUN-23
Surrogate: 13C12 PCB 19			43.0		%		5-145	13-JUN-23
Surrogate: 13C12 PCB 37			44.0		%		5-145	13-JUN-23
Surrogate: 13C12 PCB 54			43.0		%		5-145	13-JUN-23
Surrogate: 13C12 PCB 81			41.0		%		10-145	13-JUN-23
Surrogate: 13C12 PCB 77			41.0		%		10-145	13-JUN-23
Surrogate: 13C12 PCB 104			48.0		%		10-145	13-JUN-23
Surrogate: 13C12 PCB 123			40.0		%		10-145	13-JUN-23
Surrogate: 13C12 PCB 118			42.0		%		10-145	13-JUN-23
Surrogate: 13C12 PCB 114			44.0		%		10-145	13-JUN-23
Surrogate: 13C12 PCB 105			42.0		%		10-145	13-JUN-23
Surrogate: 13C12 PCB 126			42.0		%		10-145	13-JUN-23
Surrogate: 13C12 PCB 155			108.0		%		10-145	13-JUN-23
Surrogate: 13C12 PCB 167			51.0		%		10-145	13-JUN-23
Surrogate: 13C12 PCB 156/157			45.0		%		10-145	13-JUN-23

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PCB-1668C-O2-HRMS-BU Solid								
Batch	R5958116							
WG3784661-1	MB							
Surrogate: 13C12 PCB 169			50.0		%		10-145	13-JUN-23
Surrogate: 13C12 PCB 188			107.0		%		10-145	13-JUN-23
Surrogate: 13C12 PCB 189			65.0		%		10-145	13-JUN-23
Surrogate: 13C12 PCB 202			106.0		%		10-145	13-JUN-23
Surrogate: 13C12 PCB 205			54.0		%		10-145	13-JUN-23
Surrogate: 13C12 PCB 208			101.0		%		10-145	13-JUN-23
Surrogate: 13C12 PCB 206			79.0		%		10-145	13-JUN-23
Surrogate: 13C12 PCB 209			172.0	G	%		10-145	13-JUN-23
Surrogate: 13C12 PCB 28			47.0		%		5-145	13-JUN-23
Surrogate: 13C12 PCB 111			53.0		%		10-145	13-JUN-23
Surrogate: 13C12 PCB 178			64.0		%		10-145	13-JUN-23
Total MonoCB			0.130	[J]	pg/g		5	13-JUN-23
Total DiCB			2.59	[J]	pg/g		10	13-JUN-23
Total TriCB			1.97	[J]	pg/g		10	13-JUN-23
Total TetraCB			2.78	[J]	pg/g		20	13-JUN-23
Total PentaCB			1.04	[J]	pg/g		20	13-JUN-23
Total HexaCB			0.552	[J]	pg/g		20	13-JUN-23
Total HeptaCB			<0.014	[U]	pg/g		10	13-JUN-23
Total OctaCB			0.062	[J]	pg/g		10	13-JUN-23
Total NonaCB			<0.035	[U]	pg/g		5	13-JUN-23
DecaCB			0.104	[J]	pg/g		5	13-JUN-23
Total PCB			9.2	[J]	pg/g		40	13-JUN-23

COMMENTS: PCB-11 was detected in the blank that was within the reference method control limit. The recovery of 13C12-PCB-209 was above the method control limit. Native result, calculated via isotope dilution is not expected to be biased.

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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,R	The analyte was detected below the calibrated range but above the EDL, and the ion abundance ratio(s) did not meet the acceptance criteria. Value is an estimated maximum.
M,J	A peak has been manually integrated, and the analyte was detected below the calibrated range but above the EDL.
M,J,R	A peak has been manually integrated, the analyte was detected below the calibrated range but above the EDL, and the ion abundance ratio(s) did not meet the acceptance criteria. Value is an estimated maximum.
M,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.
[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.

Project Number: K2305592
Project Manager: Mark Harris
QAP: LAB QAP

Lab Code	Sample ID	# of Cont.	Matrix	Sample		Lab ID	Cl Biphen Cong 1668C	Dioxins Furans 1613B
				Date	Time			
K2305592-001	Baghouse 1	1	Soil	5/10/23	0900	Burlington ALS	X	X
K2305592-002	Baghouse 2	1	Soil	5/10/23	0910	Burlington ALS	X	X
K2305592-003	Baghouse Dust 1	1	Soil	4/13/23	1200	Burlington ALS	X	X
K2305592-004	Baghouse Dust 2	1	Soil	4/13/23	1245	Burlington ALS	X	X



L2750776-COFC

Special Instructions/Comments Please provide the electronic (PDF and EDD) report to the following e-mail address: ALKLS.Data@alsglobal.com. H - Test is On Hold P - Test is Authorized for Prep Only	Turnaround Requirements <input type="checkbox"/> RUSH (Surcharges Apply) PLEASE CIRCLE WORK DAYS 1 2 3 4 5 <input checked="" type="checkbox"/> STANDARD Requested FAX Date: _____ Requested Report Date: <u>06/16/23</u>	Report Requirements <input type="checkbox"/> I. Results Only <input checked="" type="checkbox"/> II. Results + QC Summaries <input type="checkbox"/> III. Results + QC and Calibration Summaries <input type="checkbox"/> IV. Data Validation Report with Raw Data PQL/MDL/J <u>N</u> EDD <u>N</u>	Invoice Information PO# 51K2305592 Bill to

Relinquished By: [Signature] Received By: AARON BULTON Airbill Number: _____
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